

## EMK-01 Register Table

EMK-01 supports following modbus functions:

03 (0x03) – Read Multiple Registers  
16 (0x10) – Write Multiple Registers

**Data format:**

Device supports Big-Endian (high-byte before low-byte) data format.

**Number formats:**

TYPE	SIZE	MIN	MAX
unsigned short	16 bits	0	$2^{16} - 1$
unsigned long	32 bits	0	$2^{32} - 1$
float	32bits	IEE 754	IEE 754
long64	64bits	$-2^{63}$	$2^{63} - 1$

### 03 (0x03) – Read Multiple Registers

#### Measurements

Address	Format	Unit	Remarks	Name
40001	float	V	Voltage L1	U LN L1
40003	float	V	Voltage L2	U LN L2
40005	float	V	Voltage L3	U LN L3
40007	float	V	Voltage L4	U LN L4
40009	float	V	Voltage L1 – L2	U LL L1-2
40011	float	V	Voltage L2 – L3	U LL L2-3
40013	float	V	Voltage L3 – L1	U LL L3-1
40015				NULL
40017	float	%	Voltage THD L1	THDU LN L1
40019	float	%	Voltage THD L2	THDU LN L2
40021	float	%	Voltage THD L3	THDU LN L3
40023	float	%		THDU LN L4
40025	float	%	Voltage THD L1 – L2	THDU LL L1-2
40027	float	%	Voltage THD L2 – L3	THDU LL L2-3
40029	float	%	Voltage THD L3 – L1	THDU LL L3-1
40031				NULL
40033	float	A	Current L1	PROUD L1
40035	float	A	Current L2	PROUD L2
40037	float	A	Current L3	PROUD L3
40039	float	A	Current L4	PROUD L4
40041	float	%	Current THD L1	THDI L1
40043	float	%	Current THD L2	THDI L2
40045	float	%	Current THD L3	THDI L3
40047	float	%	Current THD L4	THDI L4
40049	float		Cosφ L1	COS FI L1
40051	float		Cosφ L2	COS FI L2
40053	float		Cosφ L3	COS FI L3
40055	float		Cosφ L4	COS FI L4
40057	float		Power factor L1	POWERFACTOR L1
40059	float		Power factor L2	POWERFACTOR L2
40061	float		Power factor L3	POWERFACTOR L3
40063	float		Power factor L4	POWERFACTOR L4
40065	float		Power factor L1..L3	POWERFACTOR SUMA 3F
40067				NULL
40069				NULL
40071				NULL
40073	float		Power factor L1..L4	POWERFACTOR SUMA 4F
40075				NULL
40077				NULL
40079				NULL
40081	float	Hz	Frequency	FREQUENCY
40083				NULL
40085				NULL
40087				NULL
40089	float	VA	Apparent power L1	S L1
40091	float	VA	Apparent power L2	S L2
40093	float	VA	Apparent power L3	S L3
40095	float	VA	Apparent power L4	S L4
40097	float	W	Active power L1	P P1
40099	float	W	Active power L2	P P2
40101	float	W	Active power L3	P P3
40103	float	W	Active power L4	P P4
40105	float	var	Reactive power L1 consumption	Q CONSUMPTION L1
40107	float	var	Reactive power L2 consumption	Q CONSUMPTION L2
40109	float	var	Reactive power L3 consumption	Q CONSUMPTION L3
40111	float	var	Reactive power L4 consumption	Q CONSUMPTION L4
40113	float	var	Reactive power L1 supply	Q DISTRIBUTION L1
40115	float	var	Reactive power L2 supply	Q DISTRIBUTION L2
40117	float	var	Reactive power L3 supply	Q DISTRIBUTION L3
40119	float	var	Reactive power L4 supply	Q DISTRIBUTION L4
40121	float	W	Active power L1..L3	SUMA 3F P
40123				NULL
40125				NULL
40127				NULL
40129	float	VA	Apparent power L1..L3	SUMA 3F S
40131				NULL
40133				NULL
40135				NULL
40137	float	var	Reactive power L1..L3 consumption	SUMA 3F Q CONSUMPTION
40139				NULL
40141				NULL
40143				NULL
40145	float	var	Reactive power L1..L3 supply	SUMA 3F Q DISTRIBUTION
40147				NULL
40149				NULL

40151				NULL
40153	float	W	Active power L1..L4	SUMA 4F P
40155				NULL
40157				NULL
40159				NULL
40161	float	VA	Apparent power L1..L4	SUMA 4F S
40163				NULL
40165				NULL
40167				NULL
40169	float	var	Reactive power L1..L4 consumption	SUMA 4F Q CONSUMPTION
40171				NULL
40173				NULL
40175				NULL
40177	float	var	Reactive power L1..L4 supply	SUMA 4F Q DISTRIBUTION
40179				NULL
40181				NULL
40183				NULL
40185	float		Under-deviation L1	UNDERDEVIATION LN L1
40187	float		Under-deviation L2	UNDERDEVIATION LN L2
40189	float		Under-deviation L3	UNDERDEVIATION LN L3
40191	float		Under-deviation L4	UNDERDEVIATION LN L4
40193	float		Over-deviation L1	OVERDEVIATION LN L1
40195	float		Over-deviation L2	OVERDEVIATION LN L2
40197	float		Over-deviation L3	OVERDEVIATION LN L3
40199	float		Over-deviation L4	OVERDEVIATION LN L4
40201	float		Under-deviation L1 – L2	UNDERDEVIATION LL L1-2
40203	float		Under-deviation L2 – L3	UNDERDEVIATION LL L2-3
40205	float		Under-deviation L3 – L1	UNDERDEVIATION LL L3-1
40207				NULL
40209	float		Over-deviation L1 – L2	OVERDEVIATION LL L1-2
40211	float		Over-deviation L2 – L3	OVERDEVIATION LL L2-3
40213	float		Over-deviation L3 – L1	OVERDEVIATION LL L3-1
40215				NULL
40217	float		Unbalance voltage L1	UNBALANCE LN L1
40219	float		Unbalance voltage L2	UNBALANCE LN L2
40221	float		Unbalance voltage L3	UNBALANCE LN L3
40223	float		Unbalance voltage L4	UNBALANCE LN L4
40225	float		Unbalance current L1	UNBALANCE I L1
40227	float		Unbalance current L2	UNBALANCE I L2
40229	float		Unbalance current L3	UNBALANCE I L3
40231	float		Unbalance current L4	UNBALANCE I L4
40233	float		Ripple control L1	RIPPLE CONTROL L1
40235	float		Ripple control L2	RIPPLE CONTROL L2
40237	float		Ripple control L3	RIPPLE CONTROL L3
40239	float		Ripple control L4	RIPPLE CONTROL L4
40241	float		Short flicker L1	SHORT FLICKER L1
40243	float		Short flicker L2	SHORT FLICKER L2
40245	float		Short flicker L3	SHORT FLICKER L3
40247	float		Short flicker L4	SHORT FLICKER L4
40249	float		Long flicker L1	LONG FLICKER L1
40251	float		Long flicker L2	LONG FLICKER L2
40253	float		Long flicker L3	LONG FLICKER L3
40255	float		Long flicker L4	LONG FLICKER L4
40257				NULL
40259				NULL
40261				NULL
40263				NULL
40265				NULL
40267				NULL
40269				NULL
40271				NULL
40273				NULL
40275				NULL
40277				NULL
40279				NULL
40281	float		K-factor L1	K FACTOR L1
40283	float		K-factor L2	K FACTOR L2
40285	float		K-factor L3	K FACTOR L3
40287	float		K-factor L4	K FACTOR L4
40289	float		Distortion power L1	DISTORTION POWER L1
40291	float		Distortion power L2	DISTORTION POWER L2
40293	float		Distortion power L3	DISTORTION POWER L3
40295	float		Distortion power L4	DISTORTION POWER L4
40297	float	°C	Temperature	TEMPERATURE
40299				NULL
40301				NULL
40303				NULL
40305	float	°	Angle voltage L1	ANGLE U L1
40307	float	°	Angle voltage L2	ANGLE U L2
40309	float	°	Angle voltage L3	ANGLE U L3
40311	float	°	Angle voltage L4	ANGLE U L4
40313	float	°	Angle current L1	ANGLE I L1
40315	float	°	Angle current L2	ANGLE I L2
40317	float	°	Angle current L3	ANGLE I L3
40319				NULL
40321	float		Cosφ L1 consumption	COS FI CONSUMPTION L1
40323	float		Cosφ L2 consumption	COS FI CONSUMPTION L2
40325	float		Cosφ L3 consumption	COS FI CONSUMPTION L3
40327	float		Cosφ L4 consumption	COS FI CONSUMPTION L4
40329	float		Cosφ L1 supply	COS FI DISTRIBUTION L1
40331	float		Cosφ L2 supply	COS FI DISTRIBUTION L2
40333	float		Cosφ L3 supply	COS FI DISTRIBUTION L3
40335	float		Cosφ L4 supply	COS FI DISTRIBUTION L4
40337	float		Power factor L1 consumption	POWERFACTOR CONSUMPTION L1
40339	float		Power factor L2 consumption	POWERFACTOR CONSUMPTION L2
40341	float		Power factor L3 consumption	POWERFACTOR CONSUMPTION L3
40343	float		Power factor L4 consumption	POWERFACTOR CONSUMPTION L4
40345	float		Power factor L1 supply	POWERFACTOR DISTRIBUTION L1
40347	float		Power factor L2 supply	POWERFACTOR DISTRIBUTION L2
40349	float		Power factor L3 supply	POWERFACTOR DISTRIBUTION L3
40351	float		Power factor L4 supply	POWERFACTOR DISTRIBUTION L4
40353	float		Power factor L1..L4 supply	POWERFACTOR SUMA 4F DISTRIBUTION
40355				NULL

40357				NULL
40359				NULL
40361	float		Power factor L1..L4 consumption	POWERFACTOR_SUMA_4F_CONSUMPTION
40363				NULL
40365				NULL
40367				NULL
40369	float		Power factor L1..L3 supply	POWERFACTOR_SUMA_3F_DISTRIBUTION
40371				NULL
40373				NULL
40375				NULL
40377	float		Power factor L1..L3 consumption	POWERFACTOR_SUMA_3F_CONSUMPTION
40379				NULL
40381				NULL
40383				NULL
40385	float	W	Active power L1 consumption	P_CONSUMPTION_L1
40387	float	W	Active power L2 consumption	P_CONSUMPTION_L2
40389	float	W	Active power L3 consumption	P_CONSUMPTION_L3
40391	float	W	Active power L4 consumption	P_CONSUMPTION_L4
40393	float	W	Active power L1 supply	P_DISTRIBUTION_L1
40395	float	W	Active power L2 supply	P_DISTRIBUTION_L2
40397	float	W	Active power L3 supply	P_DISTRIBUTION_L3
40399	float	W	Active power L4 supply	P_DISTRIBUTION_L4
40401	float	W	Active power L1..L3 consumption	SUMA_3F_P_CONSUMPTION
40403				NULL
40405				NULL
40407				NULL
40409	float	W	Active power L1..L3 supply	SUMA_3F_P_DISTRIBUTION
40411				NULL
40413				NULL
40415				NULL
40417	float	W	Active power L1..L4 consumption	SUMA_4F_P_CONSUMPTION
40419				NULL
40421				NULL
40423				NULL
40425	float	W	Active power L1..L4 supply	SUMA_4F_P_DISTRIBUTION

### Comparators

Address	Format	Unit	Remarks	Name
59000	unsigned short	1 – Alarm, 0 – Ok	Comparator – 1	
59001	unsigned short	1 – Alarm, 0 – Ok	Comparator – 2	
59002	unsigned short	1 – Alarm, 0 – Ok	Comparator – 3	
59003	unsigned short	1 – Alarm, 0 – Ok	Comparator – 4	
59004	unsigned short	1 – Alarm, 0 – Ok	Comparator – 5	
59005	unsigned short	1 – Alarm, 0 – Ok	Comparator – 6	

### Inputs / Outputs

Address	Format	Unit	Remarks	Name
59006	unsigned long		Input/Output – 1	
59018	unsigned long		Input/Output – 2	

### Energy

Address	Format	Unit	Remarks	Name
55000	long64	kWh / 10	Consumed Active Energy	
55004	long64	kvarh / 10	Consumed Inductive Reactive Energy	
55008	long64	kvarh / 10	Consumed Capacitive Reactive Energy	
55012	long64	kWh / 10	Supplied Active Energy	
55016	long64	kvarh / 10	Supplied Inductive Reactive Energy	
55020	long64	kvarh / 10	Supplied Capacitive Reactive Energy	

55024	float	kWh	Consumed Active Energy	
55026	float	kvarh	Consumed Inductive Reactive Energy	
55028	float	kvarh	Consumed Capacitive Reactive Energy	
55030	float	kWh	Supplied Active Energy	
55032	float	kvarh	Supplied Inductive Reactive Energy	
55034	float	kvarh	Supplied Capacitive Reactive Energy	

### Max Values

Address	Format	Unit	Remarks	Name
56000	unsigned long	s	Time – voltage L1	TIME_MAX_U_LN_L1
56002	float	V	Voltage L1	MAX_U_LN_L1
56004	unsigned long	s	Time – voltage L2	TIME_MAX_U_LN_L2
56006	float	V	Voltage L2	MAX_U_LN_L2
56008	unsigned long	s	Time – voltage L3	TIME_MAX_U_LN_L3
56010	float	V	Voltage L3	MAX_U_LN_L3
56012				NULL
56014				NULL
56016	unsigned long	s	Time – voltage L1 – L2	TIME_MAX_U_LL_L1-2
56018	float	V	Voltage L1 – L2	MAX_U_LL_L1-2
56020	unsigned long	s	Time – voltage L2 – L3	TIME_MAX_U_LL_L2-3
56022	float	V	Voltage L2 – L3	MAX_U_LL_L2-3
56024	unsigned long	s	Time – voltage L3 – L1	TIME_MAX_U_LL_L3-1
56026	float	V	Voltage L3 – L1	MAX_U_LL_L3-1
56028				NULL
56030				NULL
56032	unsigned long	s	Time – voltage THD L1	TIME_MAX_THDU_LN_L1
56034	float	%	Voltage THD L1	MAX_THDU_LN_L1
56036	unsigned long	s	Time – voltage THD L2	TIME_MAX_THDU_LN_L2
56038	float	%	Voltage THD L2	MAX_THDU_LN_L2
56040	unsigned long	s	Time – voltage THD L3	TIME_MAX_THDU_LN_L3
56042	float	%	Voltage THD L3	MAX_THDU_LN_L3
56044				NULL
56046				NULL
56048	unsigned long	s	Time – voltage THD L1 – L2	TIME_MAX_THDU_LL_L1-2
56050	float	%	Voltage THD L1 – L2	MAX_THDU_LL_L1-2
56052	unsigned long	s	Time – voltage THD L2 – L3	TIME_MAX_THDU_LL_L2-3
56054	float	%	Voltage L2 – L3	MAX_THDU_LL_L2-3
56056	unsigned long	s	Time – voltage THD L3 – L1	TIME_MAX_THDU_LL_L3-1

56058	float	%	Voltage THD L3 – L1	MAX THDU LL L3-1
56060				NULL
56062				NULL
56064	unsigned long	s	Time – current THD L1	TIME MAX THDI L1
56066	float	%	Current THD L1	MAX THDI L1
56068	unsigned long	s	Time – current THD L2	TIME MAX THDI L2
56070	float	%	Current THD L2	MAX THDI L2
56072	unsigned long	s	Time – current THD L3	TIME MAX THDI L3
56074	float	%	Current THD L3	MAX THDI L3
56076	unsigned long	s	Time – current THD L4	TIME MAX THDI L4
56078	float	%	Current THD L4	MAX THDI L4
56080	unsigned long	s	Time – under-deviation voltage L1	TIME MAX UNDERDEVIATION LN L1
56082	float	V	Under-deviation voltage L1	MAX UNDERDEVIATION LN L1
56084	unsigned long	s	Time – under-deviation voltage L2	TIME MAX UNDERDEVIATION LN L2
56086	float	V	Under-deviation voltage L2	MAX UNDERDEVIATION LN L2
56088	unsigned long	s	Time – under-deviation voltage L3	TIME MAX UNDERDEVIATION LN L3
56090	float	V	Under-deviation voltage L3	MAX UNDERDEVIATION LN L3
56092				NULL
56094				NULL
56096	unsigned long	s	Time – over-deviation voltage L1	TIME MAX OVERDEVIATION LN L1
56098	float	V	Over-deviation voltage L1	MAX OVERDEVIATION LN L1
56100	unsigned long	s	Time – over-deviation voltage L2	TIME MAX OVERDEVIATION LN L2
56102	float	V	Over-deviation voltage L2	MAX OVERDEVIATION LN L2
56104	unsigned long	s	Time – over-deviation voltage L3	TIME MAX OVERDEVIATION LN L3
56106	float	V	Over-deviation voltage L3	MAX OVERDEVIATION LN L3
56108				NULL
56110				NULL
56112	unsigned long	s	Time – under-deviation voltage L1 – L2	TIME MAX UNDERDEVIATION LL L1-2
56114	float	V	Under-deviation voltage L1 – L2	MAX UNDERDEVIATION LL L1-2
56116	unsigned long	s	Time – under-deviation voltage L2 – L3	TIME MAX UNDERDEVIATION LL L2-3
56118	float	V	Under-deviation voltage L2 – L3	MAX UNDERDEVIATION LL L2-3
56120	unsigned long	s	Time – under-deviation voltage L3 – L1	TIME MAX UNDERDEVIATION LL L3-1
56122	float	V	Under-deviation voltage L3 – L1	MAX UNDERDEVIATION LL L3-1
56124				NULL
56126				NULL
56128	unsigned long	s	Time – over-deviation voltage L1 – L2	TIME MAX OVERDEVIATION LL L1-2
56130	float	V	Over-deviation voltage L1 – L2	MAX OVERDEVIATION LL L1-2
56132	unsigned long	s	Time – over-deviation voltage L2 – L3	TIME MAX OVERDEVIATION LL L2-3
56134	float	V	Over-deviation voltage L2 – L3	MAX OVERDEVIATION LL L2-3
56136	unsigned long	s	Time – over-deviation voltage L3 – L1	TIME MAX OVERDEVIATION LL L3-1
56138	float	V	Over-deviation voltage L3 – L1	MAX OVERDEVIATION LL L3-1
56140				NULL
56142				NULL
56144	unsigned long	s	Time – unbalance voltage L1	TIME MAX UNBALANCE LN L1
56146	float	%	Unbalance voltage L1	MAX UNBALANCE LN L1
56148	unsigned long	s	Time – unbalance voltage L2	TIME MAX UNBALANCE LN L2
56150	float	%	Unbalance voltage L2	MAX UNBALANCE LN L2
56152	unsigned long	s	Time – unbalance voltage L3	TIME MAX UNBALANCE LN L3
56154	float	%	Unbalance voltage L3	MAX UNBALANCE LN L3
56156				NULL
56158				NULL
56160	unsigned long	s	Time – unbalance current L1	TIME MAX UNBALANCE I L1
56162	float	%	Unbalance current L1	MAX UNBALANCE I L1
56164	unsigned long	s	Time – unbalance current L2	TIME MAX UNBALANCE I L2
56166	float	%	Unbalance Current L2	MAX UNBALANCE I L2
56168	unsigned long	s	Time – unbalance current L3	TIME MAX UNBALANCE I L3
56170	float	%	Unbalance current L3	MAX UNBALANCE I L3
56172	unsigned long	s	Time – unbalance current L4	TIME MAX UNBALANCE I L4
56174	float	%	Unbalance current L4	MAX UNBALANCE I L4
56176	unsigned long	s	Time – ripple control L1	TIME MAX RIPPLE CONTROL L1
56178	float	V	Ripple control L1	MAX RIPPLE CONTROL L1
56180	unsigned long	s	Time – ripple control L2	TIME MAX RIPPLE CONTROL L2
56182	float	V	Ripple control L2	MAX RIPPLE CONTROL L2
56184	unsigned long	s	Time – ripple control L3	TIME MAX RIPPLE CONTROL L3
56186	float	V	Ripple control L3	MAX RIPPLE CONTROL L3
56188				NULL
56190				NULL
56192	unsigned long	s	Time – current L1	TIME MAX PROUD L1
56194	float	A	Current L1	MAX PROUD L1
56196	unsigned long	s	Time – current L2	TIME MAX PROUD L2
56198	float	A	Current L2	MAX PROUD L2
56200	unsigned long	s	Time – current L3	TIME MAX PROUD L3
56202	float	A	Current L3	MAX PROUD L3
56204	unsigned long	s	Time – current L4	TIME MAX PROUD L4
56206	float	A	Current L4	MAX PROUD L4
56208	unsigned long	s	Time – short flicker L1	TIME MAX SHORT FLICKER L1
56210	float		Short flicker L1	MAX SHORT FLICKER L1
56212	unsigned long	s	Time – short flicker L2	TIME MAX SHORT FLICKER L2
56214	float		Short flicker L2	MAX SHORT FLICKER L2
56216	unsigned long	s	Time – short flicker L3	TIME MAX SHORT FLICKER L3
56218	float		Short flicker L3	MAX SHORT FLICKER L3
56220				NULL
56222				NULL
56224	unsigned long	s	Time – long flicker L1	TIME MAX LONG FLICKER L1
56226	float		Long flicker L1	MAX LONG FLICKER L1
56228	unsigned long	s	Time – Long flicker L2	TIME MAX LONG FLICKER L2
56230	float		Long flicker L2	MAX LONG FLICKER L2
56232	unsigned long	s	Time – long flicker L3	TIME MAX LONG FLICKER L3
56234	float		Long flicker L3	MAX LONG FLICKER L3
56236				NULL
56238				NULL
56240	unsigned long	s	Time – apparent power L1	TIME MAX S L1
56242	float	VA	Apparent power L1	MAX S L1
56244	unsigned long	s	Time – apparent power L2	TIME MAX S L2
56246	float	VA	Apparent power L2	MAX S L2
56248	unsigned long	s	Time – apparent power L3	TIME MAX S L3
56250	float	VA	Apparent power L3	MAX S L3
56252				NULL
56254				NULL
56256	unsigned long	s	Time – distortion power L1	TIME MAX DISTORTION POWER L1
56258	float		Distortion power L1	MAX DISTORTION POWER L1
56260	unsigned long	s	Time – distortion power L2	TIME MAX DISTORTION POWER L2
56262	float		Distortion power L2	MAX DISTORTION POWER L2

56264	unsigned long	s	Time – distortion power L3	TIME_MAX_DISTORTION_POWER_L3
56266	float		Distortion power L3	MAX_DISTORTION_POWER_L3
56268				NULL
56270				NULL
56272	unsigned long	s	Time – active power L1 consumption	TIME_MAX_P_CONSUMPTION_L1
56274	float	W	Active power L1 consumption	MAX_P_CONSUMPTION_L1
56276	unsigned long	s	Time – active power L2 consumption	TIME_MAX_P_CONSUMPTION_L2
56278	float	W	Active power L2 consumption	MAX_P_CONSUMPTION_L2
56280	unsigned long	s	Time – active power L3 consumption	TIME_MAX_P_CONSUMPTION_L3
56282	float	W	Active power L3 consumption	MAX_P_CONSUMPTION_L3
56284				NULL
56286				NULL
56288	unsigned long	s	Time – inductive reactive power L1 consumption	TIME_MAX_Q_CONSUMPTION_IND_L1
56290	float	var	Inductive reactive power L1 consumption	MAX_Q_CONSUMPTION_IND_L1
56292	unsigned long	s	Time – inductive reactive power L2 consumption	TIME_MAX_Q_CONSUMPTION_IND_L2
56294	float	var	Inductive reactive power L2 consumption	MAX_Q_CONSUMPTION_IND_L2
56296	unsigned long	s	Time – inductive reactive power L3 consumption	TIME_MAX_Q_CONSUMPTION_IND_L3
56298	float	var	Inductive reactive power L3 consumption	MAX_Q_CONSUMPTION_IND_L3
56300				NULL
56302				NULL
56304	unsigned long	s	Time – capacitive reactive power L1 consumption	TIME_MAX_Q_CONSUMPTION_CAP_L1
56306	float	var	Capacitive reactive power L1 consumption	MAX_Q_CONSUMPTION_CAP_L1
56308	unsigned long	s	Time – capacitive reactive power L2 consumption	TIME_MAX_Q_CONSUMPTION_CAP_L2
56310	float	var	Capacitive reactive power L2 consumption	MAX_Q_CONSUMPTION_CAP_L2
56312	unsigned long	s	Time – capacitive reactive power L3 consumption	TIME_MAX_Q_CONSUMPTION_CAP_L3
56314	float	var	Capacitive reactive power L3 consumption	MAX_Q_CONSUMPTION_CAP_L3
56316				NULL
56318				NULL
56320	unsigned long	s	Time – active power L1 supply	TIME_MAX_P_DISTRIBUTION_L1
56322	float	W	Active power L1 supply	MAX_P_DISTRIBUTION_L1
56324	unsigned long	s	Time – active power L2 supply	TIME_MAX_P_DISTRIBUTION_L2
56326	float	W	Active power L2 supply	MAX_P_DISTRIBUTION_L2
56328	unsigned long	s	Time – active power L3 supply	TIME_MAX_P_DISTRIBUTION_L3
56330	float	W	Active power L3 supply	MAX_P_DISTRIBUTION_L3
56332				NULL
56334				NULL
56336	unsigned long	s	Time – inductive reactive power L1 supply	TIME_MAX_Q_DISTRIBUTION_IND_L1
56338	float	var	Inductive reactive power L1 supply	MAX_Q_DISTRIBUTION_IND_L1
56340	unsigned long	s	Time – inductive reactive power L2 supply	TIME_MAX_Q_DISTRIBUTION_IND_L2
56342	float	var	Inductive reactive power L2 supply	MAX_Q_DISTRIBUTION_IND_L2
56344	unsigned long	s	Time – inductive reactive power L3 supply	TIME_MAX_Q_DISTRIBUTION_IND_L3
56346	float	var	Inductive reactive power L3 supply	MAX_Q_DISTRIBUTION_IND_L3
56348				NULL
56350				NULL
56352	unsigned long	s	Time – capacitive reactive power L1 supply	TIME_MAX_Q_DISTRIBUTION_CAP_L1
56354	float	var	Capacitive reactive power L1 supply	MAX_Q_DISTRIBUTION_CAP_L1
56356	unsigned long	s	Time – capacitive reactive power L2 supply	TIME_MAX_Q_DISTRIBUTION_CAP_L2
56358	float	var	Capacitive reactive power L2 supply	MAX_Q_DISTRIBUTION_CAP_L2
56360	unsigned long	s	Time – capacitive reactive power L3 supply	TIME_MAX_Q_DISTRIBUTION_CAP_L3
56362	float	var	Capacitive reactive power L3 supply	MAX_Q_DISTRIBUTION_CAP_L3
56364				NULL
56366				NULL
56368				NULL
56370				NULL
56372				NULL
56374				NULL
56376				NULL
56378				NULL
56380				NULL
56382				NULL
56384	unsigned long	s	Time – frequency	TIME_FREQUENCY
56386	float	Hz	Frequency	MAX_FREQUENCY
56388				NULL
56390				NULL
56392				NULL
56394				NULL
56396				NULL
56398				NULL
56400	unsigned long	s	Time – apparent power L1..L3	TIME_MAX_SUMA_S_3F
56402	float	VA	Apparent power L1..L3	MAX_SUMA_S_3F
56404				NULL
56406				NULL
56408				NULL
56410				NULL
56412				NULL
56414				NULL
56416				NULL
56418				NULL
56420				NULL
56422				NULL
56424				NULL
56426				NULL
56428				NULL
56430				NULL
56432	unsigned long	s	Time – active power L1..L3 consumption	TIME_MAX_P_SUMA_CONSUMPTION_3F
56434	float	W	Active power L1..L3 consumption	MAX_P_SUMA_CONSUMPTION_3F
56436				NULL
56438				NULL
56440				NULL
56442				NULL
56444				NULL
56446				NULL
56448	unsigned long	s	Time – inductive reactive power L1..L3 consumption	TIME_MAX_Q_SUMA_CONSUMPTION_IND_3F
56450	float	var	Inductive reactive power L1..L3 consumption	MAX_Q_SUMA_CONSUMPTION_IND_3F
56452				NULL
56454				NULL
56456				NULL
56458				NULL
56460				NULL
56462				NULL
56464	unsigned long	s	Time – capacitive reactive power L1..L3 consumption	TIME_MAX_Q_SUMA_CONSUMPTION_CAP_3F
56466	float	var	Capacitive reactive power L1..L3 consumption	MAX_Q_SUMA_CONSUMPTION_CAP_3F
56468				NULL

56470					NULL
56472					NULL
56474					NULL
56476					NULL
56478					NULL
56480	unsigned long	s	Time – active power L1..L3 supply		TIME_MAX_P_SUMA_DISTRIBUTION_3F
56482	float	W	Active power L1..L3 supply		MAX_P_SUMA_DISTRIBUTION_3F
56484					NULL
56486					NULL
56488					NULL
56490					NULL
56492					NULL
56494					NULL
56496	unsigned long	s	Time – inductive reactive power L1..L3 supply		TIME_MAX_Q_SUMA_DISTRIBUTION_IND_3F
56498	float	var	Inductive reactive power L1..L3 supply		MAX_Q_SUMA_DISTRIBUTION_IND_3F
56500					NULL
56502					NULL
56504					NULL
56506					NULL
56508					NULL
56510					NULL
56512	unsigned long	s	Time – capacitive reactive power L1..L3 supply		TIME_MAX_Q_SUMA_DISTRIBUTION_CAP_3F
56514	float	var	Capacitive reactive power L1..L3 supply		MAX_Q_SUMA_DISTRIBUTION_CAP_3F

### Min Values

Address	Format	Unit	Remarks	Name
57000	unsigned long	s	Time – voltage L1	TIME_MIN_U_LN_L1
57002	float	V	Voltage L1	MIN_U_LN_L1
57004	unsigned long	s	Time – voltage L2	TIME_MIN_U_LN_L2
57006	float	V	Voltage L2	MIN_U_LN_L2
57008	unsigned long	s	Time – voltage L3	TIME_MIN_U_LN_L3
57010	float	V	Voltage L3	MIN_U_LN_L3
57012				NULL
57014				NULL
57016	unsigned long	s	Time – voltage L1 – L2	TIME_MIN_U_LL_L1-2
57018	float	V	Voltage L1 – L2	MIN_U_LL_L1-2
57020	unsigned long	s	Time – voltage L2 – L3	TIME_MIN_U_LL_L2-3
57022	float	V	Voltage L2 – L3	MIN_U_LL_L2-3
57024	unsigned long	s	Time – voltage L3 – L1	TIME_MIN_U_LL_L3-1
57026	float	V	Voltage L3 – L1	MIN_U_LL_L3-1
57028				NULL
57030				NULL
57032	unsigned long	s	Time – voltage THD L1	TIME_MIN_THDU_LN_L1
57034	float	%	Voltage THD L1	MIN_THDU_LN_L1
57036	unsigned long	s	Time – voltage THD L2	TIME_MIN_THDU_LN_L2
57038	float	%	Voltage THD L2	MIN_THDU_LN_L2
57040	unsigned long	s	Time – voltage THD L3	TIME_MIN_THDU_LN_L3
57042	float	%	Voltage THD L3	MIN_THDU_LN_L3
57044				NULL
57046				NULL
57048	unsigned long	s	Time – voltage THD L1 – L2	TIME_MIN_THDU_LL_L1-2
57050	float	%	Voltage THD L1 – L2	MIN_THDU_LL_L1-2
57052	unsigned long	s	Time – voltage THD L2 – L3	TIME_MIN_THDU_LL_L2-3
57054	float	%	Voltage L2 – L3	MIN_THDU_LL_L2-3
57056	unsigned long	s	Time – voltage THD L3 – L1	TIME_MIN_THDU_LL_L3-1
57058	float	%	Voltage THD L3 – L1	MIN_THDU_LL_3-1
57060				NULL
57062				NULL
57064	unsigned long	s	Time – current THD L1	TIME_MIN_THDI_L1
57066	float	%	Current THD L1	MIN_THDI_L1
57068	unsigned long	s	Time – current THD L2	TIME_MIN_THDI_L2
57070	float	%	Current THD L2	MIN_THDI_L2
57072	unsigned long	s	Time – current THD L3	TIME_MIN_THDI_L3
57074	float	%	Current THD L3	MIN_THDI_L3
57076	unsigned long	s	Time – current THD L4	TIME_MIN_THDI_L4
57078	float	%	Current THD L4	MIN_THDI_L4
57080	unsigned long	s	Time – under-deviation voltage L1	TIME_MIN_UNDERDEVIATION_LN_L1
57082	float	V	Under-deviation voltage L1	MIN_UNDERDEVIATION_LN_L1
57084	unsigned long	s	Time – under-deviation voltage L2	TIME_MIN_UNDERDEVIATION_LN_L2
57086	float	V	Under-deviation voltage L2	MIN_UNDERDEVIATION_LN_L2
57088	unsigned long	s	Time – under-deviation voltage L3	TIME_MIN_UNDERDEVIATION_LN_L3
57090	float	V	Under-deviation voltage L3	MIN_UNDERDEVIATION_LN_L3
57092				NULL
57094				NULL
57096	unsigned long	s	Time – over-deviation voltage L1	TIME_MIN_OVERDEVIATION_LN_L1
57098	float	V	Over-deviation voltage L1	MIN_OVERDEVIATION_LN_L1
57100	unsigned long	s	Time – over-deviation voltage L2	TIME_MIN_OVERDEVIATION_LN_L2
57102	float	V	Over-deviation voltage L2	MIN_OVERDEVIATION_LN_L2
57104	unsigned long	s	Time – Over-deviation voltage L3	TIME_MIN_OVERDEVIATION_LN_L3
57106	float	V	Over-deviation voltage L3	MIN_OVERDEVIATION_LN_L3
57108				NULL
57110				NULL
57112	unsigned long	s	Time – under-deviation voltage L1 – L2	TIME_MIN_UNDERDEVIATION_LL_L1-2
57114	float	V	Under-deviation voltage L1 – L2	MIN_UNDERDEVIATION_LL_L1-2
57116	unsigned long	s	Time – under-deviation voltage L2 – L3	TIME_MIN_UNDERDEVIATION_LL_L2-3
57118	float	V	Under-deviation voltage L2 – L3	MIN_UNDERDEVIATION_LL_L2-3
57120	unsigned long	s	Time – under-deviation voltage L3 – L1	TIME_MIN_UNDERDEVIATION_LL_L3-1
57122	float	V	Under-deviation voltage L3 – L1	MIN_UNDERDEVIATION_LL_L3-1
57124				NULL
57126				NULL
57128	unsigned long	s	Time – over-deviation voltage L1 – L2	TIME_MIN_OVERDEVIATION_LL_L1-2
57130	float	V	Over-deviation voltage L1 – L2	MIN_OVERDEVIATION_LL_L1-2
57132	unsigned long	s	Time – over-deviation voltage L2 – L3	TIME_MIN_OVERDEVIATION_LL_L2-3
57134	float	V	Over-deviation voltage L2 – L3	MIN_OVERDEVIATION_LL_L2-3
57136	unsigned long	s	Time – over-deviation voltage L3 – L1	TIME_MIN_OVERDEVIATION_LL_L3-1
57138	float	V	Over-deviation voltage L3 – L1	MIN_OVERDEVIATION_LL_L3-1
57140				NULL
57142				NULL
57144	unsigned long	s	Time – unbalance voltage L1	TIME_MIN_UNBALANCE_LN_L1
57146	float	%	Unbalance voltage L1	MIN_UNBALANCE_LN_L1

57148	unsigned long	s	Time – unbalance voltage L2	TIME MIN UNBALANCE LN L2
57150	float	%	Unbalance voltage L2	MIN UNBALANCE LN L2
57152	unsigned long	s	Time – unbalance voltage L3	TIME MIN UNBALANCE LN L3
57154	float	%	Unbalance voltage L3	MIN UNBALANCE LN L3
57156				NULL
57158				NULL
57160	unsigned long	s	Time – unbalance current L1	TIME MIN UNBALANCE I L1
57162	float	%	Unbalance current L1	MIN UNBALANCE I L1
57164	unsigned long	s	Time – unbalance current L2	TIME MIN UNBALANCE I L2
57166	float	%	Unbalance Current L2	MIN UNBALANCE I L2
57168	unsigned long	s	Time – unbalance current L3	TIME MIN UNBALANCE I L3
57170	float	%	Unbalance current L3	MIN UNBALANCE I L3
57172	unsigned long	s	Time – unbalance current L4	TIME MIN UNBALANCE I L4
57174	float	%	Unbalance current L4	MIN UNBALANCE I L4
57176	unsigned long	s	Time – ripple control L1	TIME MIN RIPPLE CONTROL L1
57178	float	V	Ripple control L1	MIN RIPPLE CONTROL L1
57180	unsigned long	s	Time – ripple control L2	TIME MIN RIPPLE CONTROL L2
57182	float	V	Ripple control L2	MIN RIPPLE CONTROL L2
57184	unsigned long	s	Time – ripple control L3	TIME MIN RIPPLE CONTROL L3
57186	float	V	Ripple control L3	MIN RIPPLE CONTROL L3
57188				NULL
57190				NULL
57192	unsigned long	s	Time – inductive cosφ L1 consumption	TIME MIN COS FI CONSUMPTION IND L1
57194	float		Inductive cosφ L1 consumption	MIN COS FI CONSUMPTION IND L1
57196	unsigned long	s	Time – inductive cosφ L2 consumption	TIME MIN COS FI CONSUMPTION IND L2
57198	float		Inductive cosφ L2 consumption	MIN COS FI CONSUMPTION IND L2
57200	unsigned long	s	Time – inductive cosφ L3 consumption	TIME MIN COS FI CONSUMPTION IND L3
57202	float		Inductive cosφ L3 consumption	MIN COS FI CONSUMPTION IND L3
57204				NULL
57206				NULL
57208	unsigned long	s	Time – inductive power-factor L1 consumption	TIME MIN POWERFACTOR CONSUMPTION IND L1
57210	float		Inductive power-factor L1 consumption	MIN POWERFACTOR CONSUMPTION IND L1
57212	unsigned long	s	Time – inductive power-factor L2 consumption	TIME MIN POWERFACTOR CONSUMPTION IND L2
57214	float		Inductive power-factor L2 consumption	MIN POWERFACTOR CONSUMPTION IND L2
57216	unsigned long	s	Time – inductive power-factor L3 consumption	TIME MIN POWERFACTOR CONSUMPTION IND L3
57218	float		Inductive power-factor L3 consumption	MIN POWERFACTOR CONSUMPTION IND L3
57220				NULL
57222				NULL
57224	unsigned long	s	Time – capacitive cosφ L1 consumption	TIME MIN COS FI CONSUMPTION CAP L1
57226	float		Capacitive cosφ L1 consumption	MIN COS FI CONSUMPTION CAP L1
57228	unsigned long	s	Time – capacitive cosφ L2 consumption	TIME MIN COS FI CONSUMPTION CAP L2
57230	float		Capacitive cosφ L2 consumption	MIN COS FI CONSUMPTION CAP L2
57232	unsigned long	s	Time – capacitive cosφ L3 consumption	TIME MIN COS FI CONSUMPTION CAP L3
57234	float		Capacitive cosφ L3 consumption	MIN COS FI CONSUMPTION CAP L3
57236				NULL
57238				NULL
57240	unsigned long	s	Time – capacitive power-factor L1 consumption	TIME MIN POWERFACTOR CONSUMPTION CAP L1
57242	float		Capacitive power-factor L1 consumption	MIN POWERFACTOR CONSUMPTION CAP L1
57244	unsigned long	s	Time – capacitive power-factor L2 consumption	TIME MIN POWERFACTOR CONSUMPTION CAP L2
57246	float		Capacitive power-factor L2 consumption	MIN POWERFACTOR CONSUMPTION CAP L2
57248	unsigned long	s	Time – capacitive power-factor L3 consumption	TIME MIN POWERFACTOR CONSUMPTION CAP L3
57250	float		Capacitive power-factor L3 consumption	MIN POWERFACTOR CONSUMPTION CAP L3
57252				NULL
57254				NULL
57256	unsigned long	s	Time – inductive cosφ L1 supply	TIME MIN COS FI DISTRIBUTION IND L1
57258	float		Inductive cosφ L1 supply	MIN COS FI DISTRIBUTION IND L1
57260	unsigned long	s	Time – inductive cosφ L2 supply	TIME MIN COS FI DISTRIBUTION IND L2
57262	float		Inductive cosφ L2 supply	MIN COS FI DISTRIBUTION IND L2
57264	unsigned long	s	Time – inductive cosφ L3 supply	TIME MIN COS FI DISTRIBUTION IND L3
57266	float		Inductive cosφ L3 supply	MIN COS FI DISTRIBUTION IND L3
57268				NULL
57270				NULL
57272	unsigned long	s	Time – inductive power-factor L1 supply	TIME MIN POWERFACTOR DISTRIBUTION IND L1
57274	float		Inductive power-factor L1 supply	MIN POWERFACTOR DISTRIBUTION IND L1
57276	unsigned long	s	Time – inductive power-factor L2 supply	TIME MIN POWERFACTOR DISTRIBUTION IND L2
57278	float		Inductive power-factor L2 supply	MIN POWERFACTOR DISTRIBUTION IND L2
57280	unsigned long	s	Time – inductive power-factor L3 supply	TIME MIN POWERFACTOR DISTRIBUTION IND L3
57282	float		Inductive power-factor L3 supply	MIN POWERFACTOR DISTRIBUTION IND L3
57284				NULL
57286				NULL
57288	unsigned long	s	Time – capacitive cosφ L1 supply	TIME MIN COS FI DISTRIBUTION CAP L1
57290	float		Capacitive cosφ L1 supply	MIN COS FI DISTRIBUTION CAP L1
57292	unsigned long	s	Time – capacitive cosφ L2 supply	TIME MIN COS FI DISTRIBUTION CAP L2
57294	float		Capacitive cosφ L2 supply	MIN COS FI DISTRIBUTION CAP L2
57296	unsigned long	s	Time – capacitive cosφ L3 supply	TIME MIN COS FI DISTRIBUTION CAP L3
57298	float		Capacitive cosφ L3 supply	MIN COS FI DISTRIBUTION CAP L3
57300				NULL
57302				NULL
57304	unsigned long	s	Time – capacitive power-factor L1 supply	TIME MIN POWERFACTOR DISTRIBUTION CAP L1
57306	float		Capacitive power-factor L1 supply	MIN POWERFACTOR DISTRIBUTION CAP L1
57308	unsigned long	s	Time – capacitive power-factor L2 supply	TIME MIN POWERFACTOR DISTRIBUTION CAP L2
57310	float		Capacitive power-factor L2 supply	MIN POWERFACTOR DISTRIBUTION CAP L2
57312	unsigned long	s	Time – capacitive power-factor L3 supply	TIME MIN POWERFACTOR DISTRIBUTION CAP L3
57314	float		Capacitive power-factor L3 supply	MIN POWERFACTOR DISTRIBUTION CAP L3
57316				NULL
57318				NULL
57320				NULL
57322				NULL
57324				NULL
57326				NULL
57328				NULL
57330				NULL
57332				NULL
57334				NULL
57336	unsigned long	s	Time – frequency	TIME MIN FREQUENCY
57338	float	Hz	Frequency	MIN FREQUENCY
57340				NULL
57342				NULL
57344				NULL
57346				NULL
57348				NULL
57350				NULL
57352	unsigned long	s	Time – inductive power-factor L1..L3 consumption	TIME MIN POWERFACTOR CONSUMPTION IND 3F

57354	float		Inductive power-factor L1..L3 consumption	MIN_POWERFACTOR_CONSUMPTION_IND_3F
57356				NULL
57358				NULL
57360				NULL
57362				NULL
57364				NULL
57366				NULL
57368	unsigned long	s	Time – capacitive power-factor L1..L3 consumption	TIME_MIN_POWERFACTOR_CONSUMPTION_CAP_3F
57370	float		Capacitive power-factor L1..L3 consumption	MIN_POWERFACTOR_CONSUMPTION_CAP_3F
57372				NULL
57374				NULL
57376				NULL
57378				NULL
57380				NULL
57382				NULL
57384	unsigned long	s	Time – inductive power-factor L1..L3 supply	TIME_MIN_POWERFACTOR_DISTRIBUTION_IND_3F
57386	float		Inductive power-factor L1..L3 supply	MIN_POWERFACTOR_DISTRIBUTION_IND_3F
57388				NULL
57390				NULL
57392				NULL
57394				NULL
57396				NULL
57398				NULL
57400	unsigned long	s	Time – capacitive power-factor L1..L3 supply	TIME_MIN_POWERFACTOR_DISTRIBUTION_CAP_3F
57402	float		Capacitive power-factor L1..L3 supply	MIN_POWERFACTOR_DISTRIBUTION_CAP_3F

### Average Values

Address	Format	Unit	Remarks	Name
58000	float	V	Voltage L1	AVG U LN L1
58002	float	V	Voltage L2	AVG U LN L2
58004	float	V	Voltage L3	AVG U LN L3
58006				NULL
58008	float	V	Voltage L1 – L2	AVG U LL L1-2
58010	float	V	Voltage L2 – L3	AVG U LL L2-3
58012	float	V	Voltage L3 – L1	AVG U LL L3-1
58014				NULL
58016	float	%	Voltage THD L1	AVG THDU LN L1
58018	float	%	Voltage THD L2	AVG THDU LN L2
58020	float	%	Voltage THD L3	AVG THDU LN L3
58022				NULL
58024	float	%	Voltage THD L1 – L2	AVG THDU LL L1-2
58026	float	%	Voltage THD L2 – L3	AVG THDU LL L2-3
58028	float	%	Voltage THD L3 – L1	AVG THDU LL L3-1
58030				NULL
58032	float	%	Current THD L1	AVG THDI L1
58034	float	%	Current THD L2	AVG THDI L2
58036	float	%	Current THD L3	AVG THDI L3
58038	float	%	Current THD L4	AVG THDI L4
58040	float	V	Under-deviation voltage L1	AVG UNDERDEVIATION LN L1
58042	float	V	Under-deviation voltage L2	AVG UNDERDEVIATION LN L2
58044	float	V	Under-deviation voltage L3	AVG UNDERDEVIATION LN L3
58046				NULL
58048	float	V	Over-deviation voltage L1	AVG OVERDEVIATION LN L1
58050	float	V	Over-deviation voltage L2	AVG OVERDEVIATION LN L2
58052	float	V	Over-deviation voltage L3	AVG OVERDEVIATION LN L3
58054				NULL
58056	float	V	Under-deviation voltage L1 – L2	AVG UNDERDEVIATION LL L1-2
58058	float	V	Under-deviation voltage L2 – L3	AVG UNDERDEVIATION LL L2-3
58060	float	V	Under-deviation voltage L3 – L1	AVG UNDERDEVIATION LL L3-1
58062				NULL
58064	float	V	Over-deviation voltage L1 – L2	AVG OVERDEVIATION LL L1-2
58066	float	V	Over-deviation voltage L2 – L3	AVG OVERDEVIATION LL L2-3
58068	float	V	Over-deviation voltage L3 – L1	AVG OVERDEVIATION LL L3-1
58070				NULL
58072	float	%	Unbalance voltage L1	AVG UNBALANCE LN L1
58074	float	%	Unbalance voltage L2	AVG UNBALANCE LN L2
58076	float	%	Unbalance voltage L3	AVG UNBALANCE LN L3
58078				NULL
58080	float	%	Unbalance current L1	AVG UNBALANCE I L1
58082	float	%	Unbalance current L2	AVG UNBALANCE I L2
58084	float	%	Unbalance current L3	AVG UNBALANCE I L3
58086	float	%	Unbalance current L4	AVG UNBALANCE I L4
58088	float	V	Ripple control L1	AVG RIPPLE CONTROL L1
58090	float	V	Ripple control L2	AVG RIPPLE CONTROL L2
58092	float	V	Ripple control L3	AVG RIPPLE CONTROL L3
58094				NULL
58096				NULL
58098				NULL
58100				NULL
58102				NULL
58104	float	Hz	Frequency	AVG FREQUENCY
58106				NULL
58108				NULL
58110				NULL
58112	float	A	Current L1	AVG CURRENT L1
58114	float	A	Current L2	AVG CURRENT L2
58116	float	A	Current L3	AVG CURRENT L3
58118	float	A	Current L4	AVG CURRENT L4
58120	float	W	Active power L1 consumption	AVG P CONSUMPTION L1
58122	float	W	Active power L2 consumption	AVG P CONSUMPTION L2
58124	float	W	Active power L3 consumption	AVG P CONSUMPTION L3
58126				NULL
58128	float	W	Active power L1 supply	AVG P DISTRIBUTION L1
58130	float	W	Active power L2 supply	AVG P DISTRIBUTION L2
58132	float	W	Active power L3 supply	AVG P DISTRIBUTION L3
58134				NULL
58136	float	var	Inductive reactive power L1 consumption	AVG Q CONSUMPTION IND L1
58138	float	var	Inductive reactive power L2 consumption	AVG Q CONSUMPTION IND L2
58140	float	var	Inductive reactive power L3 consumption	AVG Q CONSUMPTION IND L3



58142				NULL
58144	float	var	Capacitive reactive power L1 consumption	AVG Q CONSUMPTION CAP L1
58146	float	var	Capacitive reactive power L2 consumption	AVG Q CONSUMPTION CAP L2
58148	float	var	Capacitive reactive power L3 consumption	AVG Q CONSUMPTION CAP L3
58150				NULL
58152	float	var	Inductive reactive power L1 supply	AVG Q DISTRIBUTION IND L1
58154	float	var	Inductive reactive power L2 supply	AVG Q DISTRIBUTION IND L2
58156	float	var	Inductive reactive power L3 supply	AVG Q DISTRIBUTION IND L3
58158				NULL
58160	float	var	Capacitive reactive power L1 supply	AVG Q DISTRIBUTION CAP L1
58162	float	var	Capacitive reactive power L2 supply	AVG Q DISTRIBUTION CAP L2
58164	float	var	Capacitive reactive power L3 supply	AVG Q DISTRIBUTION CAP L3
58166				NULL
58168	float	VA	Apparent power L1	AVG S L1
58170	float	VA	Apparent power L2	AVG S L2
58172	float	VA	Apparent power L3	AVG S L3
58174				NULL
58176	float	W	Active power L1..L3 consumption	AVG P_SUMA CONSUMPTION_3F
58178				NULL
58180				NULL
58182				NULL
58184	float	var	Inductive reactive power L1..L3 consumption	AVG Q_SUMA CONSUMPTION_IND_3F
58186				NULL
58188				NULL
58190				NULL
58192	float	var	Capacitive reactive power L1..L3 consumption	AVG Q_SUMA CONSUMPTION_CAP_3F
58194				NULL
58196				NULL
58198				NULL
58200	float	W	Active power L1..L3 supply	AVG P_SUMA DISTRIBUTION_3F
58202				NULL
58204				NULL
58206				NULL
58208	float	var	Inductive reactive power L1..L3 supply	AVG Q_SUMA DISTRIBUTION_IND_3F
58210				NULL
58212				NULL
58214				NULL
58216	float	var	Capacitive reactive power L1..L3 supply	AVG Q_SUMA DISTRIBUTION_CAP_3F
58218				NULL
58220				NULL
58222				NULL
58224				NULL
58226				NULL
58228				NULL
58230				NULL
58232				NULL
58234				NULL
58236				NULL
58238				NULL
58240				NULL
58242				NULL
58244				NULL
58246				NULL
58248				NULL
58250				NULL
58252				NULL
58254				NULL
58256				NULL
58258				NULL
58260				NULL
58262				NULL
58264				NULL
58266				NULL
58268				NULL
58270				NULL
58272	float	VA	Apparent power L1..L3	AVG_SUMA_S_3F
58274				NULL
58276				NULL
58278				NULL
58280				NULL
58282				NULL
58284				NULL
58286				NULL
58288	float		Distortion power L1	AVG_DISTORTION_POWER_L1
58290	float		Distortion power L2	AVG_DISTORTION_POWER_L2
58292	float		Distortion power L3	AVG_DISTORTION_POWER_L3
58294				NULL
58296	float		Inductive cosφ L1 consumption	AVG_SV_COS_FI_CONSUMPTION_IND_L1
58298	float		Inductive cosφ L2 consumption	AVG_SV_COS_FI_CONSUMPTION_IND_L2
58300	float		Inductive cosφ L3 consumption	AVG_SV_COS_FI_CONSUMPTION_IND_L3
58302				NULL
58304	float		Capacitive cosφ L1 consumption	AVG_SV_COS_FI_CONSUMPTION_CAP_L1
58306	float		Capacitive cosφ L2 consumption	AVG_SV_COS_FI_CONSUMPTION_CAP_L2
58308	float		Capacitive cosφ L3 consumption	AVG_SV_COS_FI_CONSUMPTION_CAP_L3
58310				NULL
58312	float		Inductive cosφ L1 supply	AVG_SV_COS_FI_DISTRIBUTION_IND_L1
58314	float		Inductive cosφ L2 supply	AVG_SV_COS_FI_DISTRIBUTION_IND_L2
58316	float		Inductive cosφ L3 supply	AVG_SV_COS_FI_DISTRIBUTION_IND_L3
58318				NULL
58320	float		Capacitive cosφ L1 supply	AVG_SV_COS_FI_DISTRIBUTION_CAP_L1
58322	float		Capacitive cosφ L2 supply	AVG_SV_COS_FI_DISTRIBUTION_CAP_L2
58324	float		Capacitive cosφ L3 supply	AVG_SV_COS_FI_DISTRIBUTION_CAP_L3
58326				NULL
58328	float		Inductive power-factor L1 consumption	AVG_SV_POWERFACTOR_CONSUMPTION_IND_L1
58330	float		Inductive power-factor L2 consumption	AVG_SV_POWERFACTOR_CONSUMPTION_IND_L2
58332	float		Inductive power-factor L3 consumption	AVG_SV_POWERFACTOR_CONSUMPTION_IND_L3
58334				NULL
58336	float		Capacitive power-factor L1 consumption	AVG_SV_POWERFACTOR_CONSUMPTION_CAP_L1
58338	float		Capacitive power-factor L2 consumption	AVG_SV_POWERFACTOR_CONSUMPTION_CAP_L2
58340	float		Capacitive power-factor L3 consumption	AVG_SV_POWERFACTOR_CONSUMPTION_CAP_L3
58342				NULL
58344	float		Inductive power-factor L1 supply	AVG_SV_POWERFACTOR_DISTRIBUTION_IND_L1
58346	float		Inductive power-factor L2 supply	AVG_SV_POWERFACTOR_DISTRIBUTION_IND_L2

58348	float		Inductive power-factor L3 supply	AVG SV POWERFACTOR DISTRIBUTION_IND L3
58350				NULL
58352	float		Capacitive power-factor L1 supply	AVG SV POWERFACTOR DISTRIBUTION_CAP L1
58354	float		Capacitive power-factor L2 supply	AVG SV POWERFACTOR DISTRIBUTION_CAP L2
58356	float		Capacitive power-factor L3 supply	AVG SV POWERFACTOR DISTRIBUTION_CAP L3
58358				NULL
58360	float		Inductive power-factor L1..L3 consumption	AVG SV POWERFACTOR SUMA_3F_CONSUMPTION_IND
58362				NULL
58364				NULL
58366				NULL
58368	float		Capacitive power-factor L1..L3 consumption	AVG SV POWERFACTOR SUMA_3F_CONSUMPTION_CAP
58370				NULL
58372				NULL
58374				NULL
58376	float		Inductive power-factor L1..L3 supply	AVG SV POWERFACTOR SUMA_3F_DISTRIBUTION_IND
58378				NULL
58380				NULL
58382				NULL
58384	float		Capacitive power-factor L1..L3 supply	AVG SV POWERFACTOR SUMA_3F_DISTRIBUTION_CAP

## Harmonics

### THD V Harmonic Order

Address	Format	Unit	Remarks	Name
40481	float	V	Voltage 1.harmonic L1	HARM_U1_L1
40483	float	V	Voltage 1.harmonic L2	HARM_U1_L2
40485	float	V	Voltage 1.harmonic L3	HARM_U1_L3
40487	float	V	Voltage 1.harmonic L4	HARM_U1_L4
40489	float	V	Voltage 2.harmonic L1	HARM_U2_L1
40491	float	V	Voltage 2.harmonic L2	HARM_U2_L2
40493	float	V	Voltage 2.harmonic L3	HARM_U2_L3
40495	float	V	Voltage 2.harmonic L4	HARM_U2_L4
40497	float	V	Voltage 3.harmonic L1	HARM_U3_L1
40499	float	V	Voltage 3.harmonic L2	HARM_U3_L2
40501	float	V	Voltage 3.harmonic L3	HARM_U3_L3
40503	float	V	Voltage 3.harmonic L4	HARM_U3_L4
40505	float	V	Voltage 4.harmonic L1	HARM_U4_L1
40507	float	V	Voltage 4.harmonic L2	HARM_U4_L2
40509	float	V	Voltage 4.harmonic L3	HARM_U4_L3
40511	float	V	Voltage 4.harmonic L4	HARM_U4_L4
40513	float	V	Voltage 5.harmonic L1	HARM_U5_L1
40515	float	V	Voltage 5.harmonic L2	HARM_U5_L2
40517	float	V	Voltage 5.harmonic L3	HARM_U5_L3
40519	float	V	Voltage 5.harmonic L4	HARM_U5_L4
40521	float	V	Voltage 6.harmonic L1	HARM_U6_L1
40523	float	V	Voltage 6.harmonic L2	HARM_U6_L2
40525	float	V	Voltage 6.harmonic L3	HARM_U6_L3
40527	float	V	Voltage 6.harmonic L4	HARM_U6_L4
40529	float	V	Voltage 7.harmonic L1	HARM_U7_L1
40531	float	V	Voltage 7.harmonic L2	HARM_U7_L2
40533	float	V	Voltage 7.harmonic L3	HARM_U7_L3
40535	float	V	Voltage 7.harmonic L4	HARM_U7_L4
40537	float	V	Voltage 8.harmonic L1	HARM_U8_L1
40539	float	V	Voltage 8.harmonic L2	HARM_U8_L2
40541	float	V	Voltage 8.harmonic L3	HARM_U8_L3
40543	float	V	Voltage 8.harmonic L4	HARM_U8_L4
40545	float	V	Voltage 9.harmonic L1	HARM_U9_L1
40547	float	V	Voltage 9.harmonic L2	HARM_U9_L2
40549	float	V	Voltage 9.harmonic L3	HARM_U9_L3
40551	float	V	Voltage 9.harmonic L4	HARM_U9_L4
40553	float	V	Voltage 10.harmonic L1	HARM_U10_L1
40555	float	V	Voltage 10.harmonic L2	HARM_U10_L2
40557	float	V	Voltage 10.harmonic L3	HARM_U10_L3
40559	float	V	Voltage 10.harmonic L4	HARM_U10_L4
40561	float	V	Voltage 11.harmonic L1	HARM_U11_L1
40563	float	V	Voltage 11.harmonic L2	HARM_U11_L2
40565	float	V	Voltage 11.harmonic L3	HARM_U11_L3
40567	float	V	Voltage 11.harmonic L4	HARM_U11_L4
40569	float	V	Voltage 12.harmonic L1	HARM_U12_L1
40571	float	V	Voltage 12.harmonic L2	HARM_U12_L2
40573	float	V	Voltage 12.harmonic L3	HARM_U12_L3
40575	float	V	Voltage 12.harmonic L4	HARM_U12_L4
40577	float	V	Voltage 13.harmonic L1	HARM_U13_L1
40579	float	V	Voltage 13.harmonic L2	HARM_U13_L2
40581	float	V	Voltage 13.harmonic L3	HARM_U13_L3
40583	float	V	Voltage 13.harmonic L4	HARM_U13_L4
40585	float	V	Voltage 14.harmonic L1	HARM_U14_L1
40587	float	V	Voltage 14.harmonic L2	HARM_U14_L2
40589	float	V	Voltage 14.harmonic L3	HARM_U14_L3
40591	float	V	Voltage 14.harmonic L4	HARM_U14_L4
40593	float	V	Voltage 15.harmonic L1	HARM_U15_L1
40595	float	V	Voltage 15.harmonic L2	HARM_U15_L2
40597	float	V	Voltage 15.harmonic L3	HARM_U15_L3
40599	float	V	Voltage 15.harmonic L4	HARM_U15_L4
40601	float	V	Voltage 16.harmonic L1	HARM_U16_L1
40603	float	V	Voltage 16.harmonic L2	HARM_U16_L2
40605	float	V	Voltage 16.harmonic L3	HARM_U16_L3
40607	float	V	Voltage 16.harmonic L4	HARM_U16_L4
40609	float	V	Voltage 17.harmonic L1	HARM_U17_L1
40611	float	V	Voltage 17.harmonic L2	HARM_U17_L2
40613	float	V	Voltage 17.harmonic L3	HARM_U17_L3
40615	float	V	Voltage 17.harmonic L4	HARM_U17_L4
40617	float	V	Voltage 18.harmonic L1	HARM_U18_L1
40619	float	V	Voltage 18.harmonic L2	HARM_U18_L2
40621	float	V	Voltage 18.harmonic L3	HARM_U18_L3
40623	float	V	Voltage 18.harmonic L4	HARM_U18_L4
40625	float	V	Voltage 19.harmonic L1	HARM_U19_L1
40627	float	V	Voltage 19.harmonic L2	HARM_U19_L2
40629	float	V	Voltage 19.harmonic L3	HARM_U19_L3

40631	float	V	Voltage 19.harmonic L4	HARM U19 L4
40633	float	V	Voltage 20.harmonic L1	HARM U20 L1
40635	float	V	Voltage 20.harmonic L2	HARM U20 L2
40637	float	V	Voltage 20.harmonic L3	HARM U20 L3
40639	float	V	Voltage 20.harmonic L4	HARM U20 L4
40641	float	V	Voltage 21.harmonic L1	HARM U21 L1
40643	float	V	Voltage 21.harmonic L2	HARM U21 L2
40645	float	V	Voltage 21.harmonic L3	HARM U21 L3
40647	float	V	Voltage 21.harmonic L4	HARM U21 L4
40649	float	V	Voltage 22.harmonic L1	HARM U22 L1
40651	float	V	Voltage 22.harmonic L2	HARM U22 L2
40653	float	V	Voltage 22.harmonic L3	HARM U22 L3
40655	float	V	Voltage 22.harmonic L4	HARM U22 L4
40657	float	V	Voltage 23.harmonic L1	HARM U23 L1
40659	float	V	Voltage 23.harmonic L2	HARM U23 L2
40661	float	V	Voltage 23.harmonic L3	HARM U23 L3
40663	float	V	Voltage 23.harmonic L4	HARM U23 L4
40665	float	V	Voltage 24.harmonic L1	HARM U24 L1
40667	float	V	Voltage 24.harmonic L2	HARM U24 L2
40669	float	V	Voltage 24.harmonic L3	HARM U24 L3
40671	float	V	Voltage 24.harmonic L4	HARM U24 L4
40673	float	V	Voltage 25.harmonic L1	HARM U25 L1
40675	float	V	Voltage 25.harmonic L2	HARM U25 L2
40677	float	V	Voltage 25.harmonic L3	HARM U25 L3
40679	float	V	Voltage 25.harmonic L4	HARM U25 L4
40681	float	V	Voltage 26.harmonic L1	HARM U26 L1
40683	float	V	Voltage 26.harmonic L2	HARM U26 L2
40685	float	V	Voltage 26.harmonic L3	HARM U26 L3
40687	float	V	Voltage 26.harmonic L4	HARM U26 L4
40689	float	V	Voltage 27.harmonic L1	HARM U27 L1
40691	float	V	Voltage 27.harmonic L2	HARM U27 L2
40693	float	V	Voltage 27.harmonic L3	HARM U27 L3
40695	float	V	Voltage 27.harmonic L4	HARM U27 L4
40697	float	V	Voltage 28.harmonic L1	HARM U28 L1
40699	float	V	Voltage 28.harmonic L2	HARM U28 L2
40701	float	V	Voltage 28.harmonic L3	HARM U28 L3
40703	float	V	Voltage 28.harmonic L4	HARM U28 L4
40705	float	V	Voltage 29.harmonic L1	HARM U29 L1
40707	float	V	Voltage 29.harmonic L2	HARM U29 L2
40709	float	V	Voltage 29.harmonic L3	HARM U29 L3
40711	float	V	Voltage 29.harmonic L4	HARM U29 L4
40713	float	V	Voltage 30.harmonic L1	HARM U30 L1
40715	float	V	Voltage 30.harmonic L2	HARM U30 L2
40717	float	V	Voltage 30.harmonic L3	HARM U30 L3
40719	float	V	Voltage 30.harmonic L4	HARM U30 L4
40721	float	V	Voltage 31.harmonic L1	HARM U31 L1
40723	float	V	Voltage 31.harmonic L2	HARM U31 L2
40725	float	V	Voltage 31.harmonic L3	HARM U31 L3
40727	float	V	Voltage 31.harmonic L4	HARM U31 L4
40729	float	V	Voltage 32.harmonic L1	HARM U32 L1
40731	float	V	Voltage 32.harmonic L2	HARM U32 L2
40733	float	V	Voltage 32.harmonic L3	HARM U32 L3
40735	float	V	Voltage 32.harmonic L4	HARM U32 L4
40737	float	V	Voltage 33.harmonic L1	HARM U33 L1
40739	float	V	Voltage 33.harmonic L2	HARM U33 L2
40741	float	V	Voltage 33.harmonic L3	HARM U33 L3
40743	float	V	Voltage 33.harmonic L4	HARM U33 L4
40745	float	V	Voltage 34.harmonic L1	HARM U34 L1
40747	float	V	Voltage 34.harmonic L2	HARM U34 L2
40749	float	V	Voltage 34.harmonic L3	HARM U34 L3
40751	float	V	Voltage 34.harmonic L4	HARM U34 L4
40753	float	V	Voltage 35.harmonic L1	HARM U35 L1
40755	float	V	Voltage 35.harmonic L2	HARM U35 L2
40757	float	V	Voltage 35.harmonic L3	HARM U35 L3
40759	float	V	Voltage 35.harmonic L4	HARM U35 L4
40761	float	V	Voltage 36.harmonic L1	HARM U36 L1
40763	float	V	Voltage 36.harmonic L2	HARM U36 L2
40765	float	V	Voltage 36.harmonic L3	HARM U36 L3
40767	float	V	Voltage 36.harmonic L4	HARM U36 L4
40769	float	V	Voltage 37.harmonic L1	HARM U37 L1
40771	float	V	Voltage 37.harmonic L2	HARM U37 L2
40773	float	V	Voltage 37.harmonic L3	HARM U37 L3
40775	float	V	Voltage 37.harmonic L4	HARM U37 L4
40777	float	V	Voltage 38.harmonic L1	HARM U38 L1
40779	float	V	Voltage 38.harmonic L2	HARM U38 L2
40781	float	V	Voltage 38.harmonic L3	HARM U38 L3
40783	float	V	Voltage 38.harmonic L4	HARM U38 L4
40785	float	V	Voltage 39.harmonic L1	HARM U39 L1
40787	float	V	Voltage 39.harmonic L2	HARM U39 L2
40789	float	V	Voltage 39.harmonic L3	HARM U39 L3
40791	float	V	Voltage 39.harmonic L4	HARM U39 L4
40793	float	V	Voltage 40.harmonic L1	HARM U40 L1
40795	float	V	Voltage 40.harmonic L2	HARM U40 L2
40797	float	V	Voltage 40.harmonic L3	HARM U40 L3
40799	float	V	Voltage 40.harmonic L4	HARM U40 L4
40801	float	V	Voltage 41.harmonic L1	HARM U41 L1
40803	float	V	Voltage 41.harmonic L2	HARM U41 L2
40805	float	V	Voltage 41.harmonic L3	HARM U41 L3
40807	float	V	Voltage 41.harmonic L4	HARM U41 L4
40809	float	V	Voltage 42.harmonic L1	HARM U42 L1
40811	float	V	Voltage 42.harmonic L2	HARM U42 L2
40813	float	V	Voltage 42.harmonic L3	HARM U42 L3
40815	float	V	Voltage 42.harmonic L4	HARM U42 L4
40817	float	V	Voltage 43.harmonic L1	HARM U43 L1
40819	float	V	Voltage 43.harmonic L2	HARM U43 L2
40821	float	V	Voltage 43.harmonic L3	HARM U43 L3
40823	float	V	Voltage 43.harmonic L4	HARM U43 L4
40825	float	V	Voltage 44.harmonic L1	HARM U44 L1
40827	float	V	Voltage 44.harmonic L2	HARM U44 L2
40829	float	V	Voltage 44.harmonic L3	HARM U44 L3
40831	float	V	Voltage 44.harmonic L4	HARM U44 L4
40833	float	V	Voltage 45.harmonic L1	HARM U45 L1
40835	float	V	Voltage 45.harmonic L2	HARM U45 L2

40837	float	V	Voltage 45.harmonic L3	HARM U45 L3
40839	float	V	Voltage 45.harmonic L4	HARM U45 L4
40841	float	V	Voltage 46.harmonic L1	HARM U46 L1
40843	float	V	Voltage 46.harmonic L2	HARM U46 L2
40845	float	V	Voltage 46.harmonic L3	HARM U46 L3
40847	float	V	Voltage 46.harmonic L4	HARM U46 L4
40849	float	V	Voltage 47.harmonic L1	HARM U47 L1
40851	float	V	Voltage 47.harmonic L2	HARM U47 L2
40853	float	V	Voltage 47.harmonic L3	HARM U47 L3
40855	float	V	Voltage 47.harmonic L4	HARM U47 L4
40857	float	V	Voltage 48.harmonic L1	HARM U48 L1
40859	float	V	Voltage 48.harmonic L2	HARM U48 L2
40861	float	V	Voltage 48.harmonic L3	HARM U48 L3
40863	float	V	Voltage 48.harmonic L4	HARM U48 L4
40865	float	V	Voltage 49.harmonic L1	HARM U49 L1
40867	float	V	Voltage 49.harmonic L2	HARM U49 L2
40869	float	V	Voltage 49.harmonic L3	HARM U49 L3
40871	float	V	Voltage 49.harmonic L4	HARM U49 L4
40873	float	V	Voltage 50.harmonic L1	HARM U50 L1
40875	float	V	Voltage 50.harmonic L2	HARM U50 L2
40877	float	V	Voltage 50.harmonic L3	HARM U50 L3
40879	float	V	Voltage 50.harmonic L4	HARM U50 L4
40881	float	V	Voltage 51.harmonic L1	HARM U51 L1
40883	float	V	Voltage 51.harmonic L2	HARM U51 L2
40885	float	V	Voltage 51.harmonic L3	HARM U51 L3
40887	float	V	Voltage 51.harmonic L4	HARM U51 L4
40889	float	V	Voltage 52.harmonic L1	HARM U52 L1
40891	float	V	Voltage 52.harmonic L2	HARM U52 L2
40893	float	V	Voltage 52.harmonic L3	HARM U52 L3
40895	float	V	Voltage 52.harmonic L4	HARM U52 L4
40897	float	V	Voltage 53.harmonic L1	HARM U53 L1
40899	float	V	Voltage 53.harmonic L2	HARM U53 L2
40901	float	V	Voltage 53.harmonic L3	HARM U53 L3
40903	float	V	Voltage 53.harmonic L4	HARM U53 L4
40905	float	V	Voltage 54.harmonic L1	HARM U54 L1
40907	float	V	Voltage 54.harmonic L2	HARM U54 L2
40909	float	V	Voltage 54.harmonic L3	HARM U54 L3
40911	float	V	Voltage 54.harmonic L4	HARM U54 L4
40913	float	V	Voltage 55.harmonic L1	HARM U55 L1
40915	float	V	Voltage 55.harmonic L2	HARM U55 L2
40917	float	V	Voltage 55.harmonic L3	HARM U55 L3
40919	float	V	Voltage 55.harmonic L4	HARM U55 L4
40921	float	V	Voltage 56.harmonic L1	HARM U56 L1
40923	float	V	Voltage 56.harmonic L2	HARM U56 L2
40925	float	V	Voltage 56.harmonic L3	HARM U56 L3
40927	float	V	Voltage 56.harmonic L4	HARM U56 L4
40929	float	V	Voltage 57.harmonic L1	HARM U57 L1
40931	float	V	Voltage 57.harmonic L2	HARM U57 L2
40933	float	V	Voltage 57.harmonic L3	HARM U57 L3
40935	float	V	Voltage 57.harmonic L4	HARM U57 L4
40937	float	V	Voltage 58.harmonic L1	HARM U58 L1
40939	float	V	Voltage 58.harmonic L2	HARM U58 L2
40941	float	V	Voltage 58.harmonic L3	HARM U58 L3
40943	float	V	Voltage 58.harmonic L4	HARM U58 L4
40945	float	V	Voltage 59.harmonic L1	HARM U59 L1
40947	float	V	Voltage 59.harmonic L2	HARM U59 L2
40949	float	V	Voltage 59.harmonic L3	HARM U59 L3
40951	float	V	Voltage 59.harmonic L4	HARM U59 L4
40953	float	V	Voltage 60.harmonic L1	HARM U60 L1
40955	float	V	Voltage 60.harmonic L2	HARM U60 L2
40957	float	V	Voltage 60.harmonic L3	HARM U60 L3
40959	float	V	Voltage 60.harmonic L4	HARM U60 L4
40961	float	V	Voltage 61.harmonic L1	HARM U61 L1
40963	float	V	Voltage 61.harmonic L2	HARM U61 L2
40965	float	V	Voltage 61.harmonic L3	HARM U61 L3
40967	float	V	Voltage 61.harmonic L4	HARM U61 L4
40969	float	V	Voltage 62.harmonic L1	HARM U62 L1
40971	float	V	Voltage 62.harmonic L2	HARM U62 L2
40973	float	V	Voltage 62.harmonic L3	HARM U62 L3
40975	float	V	Voltage 62.harmonic L4	HARM U62 L4
40977	float	V	Voltage 63.harmonic L1	HARM U63 L1
40979	float	V	Voltage 63.harmonic L2	HARM U63 L2
40981	float	V	Voltage 63.harmonic L3	HARM U63 L3
40983	float	V	Voltage 63.harmonic L4	HARM U63 L4
40985	float	V	Voltage 64.harmonic L1	HARM U64 L1
40987	float	V	Voltage 64.harmonic L2	HARM U64 L2
40989	float	V	Voltage 64.harmonic L3	HARM U64 L3
40991	float	V	Voltage 64.harmonic L4	HARM U64 L4

**THD V Inter - Harmonic Order**

Address	Format	Unit	Remarks	Name
40993	float	V	Voltage 1.inter-harmonic L1	INTERHARM U1 L1
40995	float	V	Voltage 1.inter-harmonic L2	INTERHARM U1 L2
40997	float	V	Voltage 1.inter-harmonic L3	INTERHARM U1 L3
40999	float	V	Voltage 1.inter-harmonic L4	INTERHARM U1 L4
41001	float	V	Voltage 2.inter-harmonic L1	INTERHARM U2 L1
41003	float	V	Voltage 2.inter-harmonic L2	INTERHARM U2 L2
41005	float	V	Voltage 2.inter-harmonic L3	INTERHARM U2 L3
41007	float	V	Voltage 2.inter-harmonic L4	INTERHARM U2 L4
41009	float	V	Voltage 3.inter-harmonic L1	INTERHARM U3 L1
41011	float	V	Voltage 3.inter-harmonic L2	INTERHARM U3 L2
41013	float	V	Voltage 3.inter-harmonic L3	INTERHARM U3 L3
41015	float	V	Voltage 3.inter-harmonic L4	INTERHARM U3 L4
41017	float	V	Voltage 4.inter-harmonic L1	INTERHARM U4 L1
41019	float	V	Voltage 4.inter-harmonic L2	INTERHARM U4 L2
41021	float	V	Voltage 4.inter-harmonic L3	INTERHARM U4 L3
41023	float	V	Voltage 4.inter-harmonic L4	INTERHARM U4 L4
41025	float	V	Voltage 5.inter-harmonic L1	INTERHARM U5 L1
41027	float	V	Voltage 5.inter-harmonic L2	INTERHARM U5 L2
41029	float	V	Voltage 5.inter-harmonic L3	INTERHARM U5 L3
41031	float	V	Voltage 5.inter-harmonic L4	INTERHARM U5 L4





41445	float	V	Voltage 57.inter-harmonic L3	INTERHARM U57 L3
41447	float	V	Voltage 57.inter-harmonic L4	INTERHARM U57 L4
41449	float	V	Voltage 58.inter-harmonic L1	INTERHARM U58 L1
41451	float	V	Voltage 58.inter-harmonic L2	INTERHARM U58 L2
41453	float	V	Voltage 58.inter-harmonic L3	INTERHARM U58 L3
41455	float	V	Voltage 58.inter-harmonic L4	INTERHARM U58 L4
41457	float	V	Voltage 59.inter-harmonic L1	INTERHARM U59 L1
41459	float	V	Voltage 59.inter-harmonic L2	INTERHARM U59 L2
41461	float	V	Voltage 59.inter-harmonic L3	INTERHARM U59 L3
41463	float	V	Voltage 59.inter-harmonic L4	INTERHARM U59 L4
41465	float	V	Voltage 60.inter-harmonic L1	INTERHARM U60 L1
41467	float	V	Voltage 60.inter-harmonic L2	INTERHARM U60 L2
41469	float	V	Voltage 60.inter-harmonic L3	INTERHARM U60 L3
41471	float	V	Voltage 60.inter-harmonic L4	INTERHARM U60 L4
41473	float	V	Voltage 61.inter-harmonic L1	INTERHARM U61 L1
41475	float	V	Voltage 61.inter-harmonic L2	INTERHARM U61 L2
41477	float	V	Voltage 61.inter-harmonic L3	INTERHARM U61 L3
41479	float	V	Voltage 61.inter-harmonic L4	INTERHARM U61 L4
41481	float	V	Voltage 62.inter-harmonic L1	INTERHARM U62 L1
41483	float	V	Voltage 62.inter-harmonic L2	INTERHARM U62 L2
41485	float	V	Voltage 62.inter-harmonic L3	INTERHARM U62 L3
41487	float	V	Voltage 62.inter-harmonic L4	INTERHARM U62 L4
41489	float	V	Voltage 63.inter-harmonic L1	INTERHARM U63 L1
41491	float	V	Voltage 63.inter-harmonic L2	INTERHARM U63 L2
41493	float	V	Voltage 63.inter-harmonic L3	INTERHARM U63 L3
41495	float	V	Voltage 63.inter-harmonic L4	INTERHARM U63 L4
41497	float	V	Voltage 64.inter-harmonic L1	INTERHARM U64 L1
41499	float	V	Voltage 64.inter-harmonic L2	INTERHARM U64 L2
41501	float	V	Voltage 64.inter-harmonic L3	INTERHARM U64 L3
41503	float	V	Voltage 64.inter-harmonic L4	INTERHARM U64 L4

### THD V Group Harmonic Order

Address	Format	Unit	Remarks	Name
41505	float	V	Voltage 1.group harmonic L1	GROUP HARM U1 L1
41507	float	V	Voltage 1.group harmonic L2	GROUP HARM U1 L2
41509	float	V	Voltage 1.group harmonic L3	GROUP HARM U1 L3
41511	float	V	Voltage 1.group harmonic L4	GROUP HARM U1 L4
41513	float	V	Voltage 2.group harmonic L1	GROUP HARM U2 L1
41515	float	V	Voltage 2.group harmonic L2	GROUP HARM U2 L2
41517	float	V	Voltage 2.group harmonic L3	GROUP HARM U2 L3
41519	float	V	Voltage 2.group harmonic L4	GROUP HARM U2 L4
41521	float	V	Voltage 3.group harmonic L1	GROUP HARM U3 L1
41523	float	V	Voltage 3.group harmonic L2	GROUP HARM U3 L2
41525	float	V	Voltage 3.group harmonic L3	GROUP HARM U3 L3
41527	float	V	Voltage 3.group harmonic L4	GROUP HARM U3 L4
41529	float	V	Voltage 4.group harmonic L1	GROUP HARM U4 L1
41531	float	V	Voltage 4.group harmonic L2	GROUP HARM U4 L2
41533	float	V	Voltage 4.group harmonic L3	GROUP HARM U4 L3
41535	float	V	Voltage 4.group harmonic L4	GROUP HARM U4 L4
41537	float	V	Voltage 5.group harmonic L1	GROUP HARM U5 L1
41539	float	V	Voltage 5.group harmonic L2	GROUP HARM U5 L2
41541	float	V	Voltage 5.group harmonic L3	GROUP HARM U5 L3
41543	float	V	Voltage 5.group harmonic L4	GROUP HARM U5 L4
41545	float	V	Voltage 6.group harmonic L1	GROUP HARM U6 L1
41547	float	V	Voltage 6.group harmonic L2	GROUP HARM U6 L2
41549	float	V	Voltage 6.group harmonic L3	GROUP HARM U6 L3
41551	float	V	Voltage 6.group harmonic L4	GROUP HARM U6 L4
41553	float	V	Voltage 7.group harmonic L1	GROUP HARM U7 L1
41555	float	V	Voltage 7.group harmonic L2	GROUP HARM U7 L2
41557	float	V	Voltage 7.group harmonic L3	GROUP HARM U7 L3
41559	float	V	Voltage 7.group harmonic L4	GROUP HARM U7 L4
41561	float	V	Voltage 8.group harmonic L1	GROUP HARM U8 L1
41563	float	V	Voltage 8.group harmonic L2	GROUP HARM U8 L2
41565	float	V	Voltage 8.group harmonic L3	GROUP HARM U8 L3
41567	float	V	Voltage 8.group harmonic L4	GROUP HARM U8 L4
41569	float	V	Voltage 9.group harmonic L1	GROUP HARM U9 L1
41571	float	V	Voltage 9.group harmonic L2	GROUP HARM U9 L2
41573	float	V	Voltage 9.group harmonic L3	GROUP HARM U9 L3
41575	float	V	Voltage 9.group harmonic L4	GROUP HARM U9 L4
41577	float	V	Voltage 10.group harmonic L1	GROUP HARM U10 L1
41579	float	V	Voltage 10.group harmonic L2	GROUP HARM U10 L2
41581	float	V	Voltage 10.group harmonic L3	GROUP HARM U10 L3
41583	float	V	Voltage 10.group harmonic L4	GROUP HARM U10 L4
41585	float	V	Voltage 11.group harmonic L1	GROUP HARM U11 L1
41587	float	V	Voltage 11.group harmonic L2	GROUP HARM U11 L2
41589	float	V	Voltage 11.group harmonic L3	GROUP HARM U11 L3
41591	float	V	Voltage 11.group harmonic L4	GROUP HARM U11 L4
41593	float	V	Voltage 12.group harmonic L1	GROUP HARM U12 L1
41595	float	V	Voltage 12.group harmonic L2	GROUP HARM U12 L2
41597	float	V	Voltage 12.group harmonic L3	GROUP HARM U12 L3
41599	float	V	Voltage 12.group harmonic L4	GROUP HARM U12 L4
41601	float	V	Voltage 13.group harmonic L1	GROUP HARM U13 L1
41603	float	V	Voltage 13.group harmonic L2	GROUP HARM U13 L2
41605	float	V	Voltage 13.group harmonic L3	GROUP HARM U13 L3
41607	float	V	Voltage 13.group harmonic L4	GROUP HARM U13 L4
41609	float	V	Voltage 14.group harmonic L1	GROUP HARM U14 L1
41611	float	V	Voltage 14.group harmonic L2	GROUP HARM U14 L2
41613	float	V	Voltage 14.group harmonic L3	GROUP HARM U14 L3
41615	float	V	Voltage 14.group harmonic L4	GROUP HARM U14 L4
41617	float	V	Voltage 15.group harmonic L1	GROUP HARM U15 L1
41619	float	V	Voltage 15.group harmonic L2	GROUP HARM U15 L2
41621	float	V	Voltage 15.group harmonic L3	GROUP HARM U15 L3
41623	float	V	Voltage 15.group harmonic L4	GROUP HARM U15 L4
41625	float	V	Voltage 16.group harmonic L1	GROUP HARM U16 L1
41627	float	V	Voltage 16.group harmonic L2	GROUP HARM U16 L2
41629	float	V	Voltage 16.group harmonic L3	GROUP HARM U16 L3
41631	float	V	Voltage 16.group harmonic L4	GROUP HARM U16 L4
41633	float	V	Voltage 17.group harmonic L1	GROUP HARM U17 L1
41635	float	V	Voltage 17.group harmonic L2	GROUP HARM U17 L2
41637	float	V	Voltage 17.group harmonic L3	GROUP HARM U17 L3





41845	float	V	Voltage 43.group harmonic L3	GROUP_HARM_U43_L3
41847	float	V	Voltage 43.group harmonic L4	GROUP_HARM_U43_L4
41849	float	V	Voltage 44.group harmonic L1	GROUP_HARM_U44_L1
41851	float	V	Voltage 44.group harmonic L2	GROUP_HARM_U44_L2
41853	float	V	Voltage 44.group harmonic L3	GROUP_HARM_U44_L3
41855	float	V	Voltage 44.group harmonic L4	GROUP_HARM_U44_L4
41857	float	V	Voltage 45.group harmonic L1	GROUP_HARM_U45_L1
41859	float	V	Voltage 45.group harmonic L2	GROUP_HARM_U45_L2
41861	float	V	Voltage 45.group harmonic L3	GROUP_HARM_U45_L3
41863	float	V	Voltage 45.group harmonic L4	GROUP_HARM_U45_L4
41865	float	V	Voltage 46.group harmonic L1	GROUP_HARM_U46_L1
41867	float	V	Voltage 46.group harmonic L2	GROUP_HARM_U46_L2
41869	float	V	Voltage 46.group harmonic L3	GROUP_HARM_U46_L3
41871	float	V	Voltage 46.group harmonic L4	GROUP_HARM_U46_L4
41873	float	V	Voltage 47.group harmonic L1	GROUP_HARM_U47_L1
41875	float	V	Voltage 47.group harmonic L2	GROUP_HARM_U47_L2
41877	float	V	Voltage 47.group harmonic L3	GROUP_HARM_U47_L3
41879	float	V	Voltage 47.group harmonic L4	GROUP_HARM_U47_L4
41881	float	V	Voltage 48.group harmonic L1	GROUP_HARM_U48_L1
41883	float	V	Voltage 48.group harmonic L2	GROUP_HARM_U48_L2
41885	float	V	Voltage 48.group harmonic L3	GROUP_HARM_U48_L3
41887	float	V	Voltage 48.group harmonic L4	GROUP_HARM_U48_L4
41889	float	V	Voltage 49.group harmonic L1	GROUP_HARM_U49_L1
41891	float	V	Voltage 49.group harmonic L2	GROUP_HARM_U49_L2
41893	float	V	Voltage 49.group harmonic L3	GROUP_HARM_U49_L3
41895	float	V	Voltage 49.group harmonic L4	GROUP_HARM_U49_L4
41897	float	V	Voltage 50.group harmonic L1	GROUP_HARM_U50_L1
41899	float	V	Voltage 50.group harmonic L2	GROUP_HARM_U50_L2
41901	float	V	Voltage 50.group harmonic L3	GROUP_HARM_U50_L3
41903	float	V	Voltage 50.group harmonic L4	GROUP_HARM_U50_L4
41905	float	V	Voltage 51.group harmonic L1	GROUP_HARM_U51_L1
41907	float	V	Voltage 51.group harmonic L2	GROUP_HARM_U51_L2
41909	float	V	Voltage 51.group harmonic L3	GROUP_HARM_U51_L3
41911	float	V	Voltage 51.group harmonic L4	GROUP_HARM_U51_L4
41913	float	V	Voltage 52.group harmonic L1	GROUP_HARM_U52_L1
41915	float	V	Voltage 52.group harmonic L2	GROUP_HARM_U52_L2
41917	float	V	Voltage 52.group harmonic L3	GROUP_HARM_U52_L3
41919	float	V	Voltage 52.group harmonic L4	GROUP_HARM_U52_L4
41921	float	V	Voltage 53.group harmonic L1	GROUP_HARM_U53_L1
41923	float	V	Voltage 53.group harmonic L2	GROUP_HARM_U53_L2
41925	float	V	Voltage 53.group harmonic L3	GROUP_HARM_U53_L3
41927	float	V	Voltage 53.group harmonic L4	GROUP_HARM_U53_L4
41929	float	V	Voltage 54.group harmonic L1	GROUP_HARM_U54_L1
41931	float	V	Voltage 54.group harmonic L2	GROUP_HARM_U54_L2
41933	float	V	Voltage 54.group harmonic L3	GROUP_HARM_U54_L3
41935	float	V	Voltage 54.group harmonic L4	GROUP_HARM_U54_L4
41937	float	V	Voltage 55.group harmonic L1	GROUP_HARM_U55_L1
41939	float	V	Voltage 55.group harmonic L2	GROUP_HARM_U55_L2
41941	float	V	Voltage 55.group harmonic L3	GROUP_HARM_U55_L3
41943	float	V	Voltage 55.group harmonic L4	GROUP_HARM_U55_L4
41945	float	V	Voltage 56.group harmonic L1	GROUP_HARM_U56_L1
41947	float	V	Voltage 56.group harmonic L2	GROUP_HARM_U56_L2
41949	float	V	Voltage 56.group harmonic L3	GROUP_HARM_U56_L3
41951	float	V	Voltage 56.group harmonic L4	GROUP_HARM_U56_L4
41953	float	V	Voltage 57.group harmonic L1	GROUP_HARM_U57_L1
41955	float	V	Voltage 57.group harmonic L2	GROUP_HARM_U57_L2
41957	float	V	Voltage 57.group harmonic L3	GROUP_HARM_U57_L3
41959	float	V	Voltage 57.group harmonic L4	GROUP_HARM_U57_L4
41961	float	V	Voltage 58.group harmonic L1	GROUP_HARM_U58_L1
41963	float	V	Voltage 58.group harmonic L2	GROUP_HARM_U58_L2
41965	float	V	Voltage 58.group harmonic L3	GROUP_HARM_U58_L3
41967	float	V	Voltage 58.group harmonic L4	GROUP_HARM_U58_L4
41969	float	V	Voltage 59.group harmonic L1	GROUP_HARM_U59_L1
41971	float	V	Voltage 59.group harmonic L2	GROUP_HARM_U59_L2
41973	float	V	Voltage 59.group harmonic L3	GROUP_HARM_U59_L3
41975	float	V	Voltage 59.group harmonic L4	GROUP_HARM_U59_L4
41977	float	V	Voltage 60.group harmonic L1	GROUP_HARM_U60_L1
41979	float	V	Voltage 60.group harmonic L2	GROUP_HARM_U60_L2
41981	float	V	Voltage 60.group harmonic L3	GROUP_HARM_U60_L3
41983	float	V	Voltage 60.group harmonic L4	GROUP_HARM_U60_L4
41985	float	V	Voltage 61.group harmonic L1	GROUP_HARM_U61_L1
41987	float	V	Voltage 61.group harmonic L2	GROUP_HARM_U61_L2
41989	float	V	Voltage 61.group harmonic L3	GROUP_HARM_U61_L3
41991	float	V	Voltage 61.group harmonic L4	GROUP_HARM_U61_L4
41993	float	V	Voltage 62.group harmonic L1	GROUP_HARM_U62_L1
41995	float	V	Voltage 62.group harmonic L2	GROUP_HARM_U62_L2
41997	float	V	Voltage 62.group harmonic L3	GROUP_HARM_U62_L3
41999	float	V	Voltage 62.group harmonic L4	GROUP_HARM_U62_L4
42001	float	V	Voltage 63.group harmonic L1	GROUP_HARM_U63_L1
42003	float	V	Voltage 63.group harmonic L2	GROUP_HARM_U63_L2
42005	float	V	Voltage 63.group harmonic L3	GROUP_HARM_U63_L3
42007	float	V	Voltage 63.group harmonic L4	GROUP_HARM_U63_L4
42009	float	V	Voltage 64.group harmonic L1	GROUP_HARM_U64_L1
42011	float	V	Voltage 64.group harmonic L2	GROUP_HARM_U64_L2
42013	float	V	Voltage 64.group harmonic L3	GROUP_HARM_U64_L3
42015	float	V	Voltage 64.group harmonic L4	GROUP_HARM_U64_L4

### THD VLL Harmonic Order

Address	Format	Unit	Remarks	Name
44577	float	V	Voltage 1.harmonic L1 – L2	HARM_U1_L1_L2
44579	float	V	Voltage 1.harmonic L2 – L3	HARM_U1_L2_L3
44581	float	V	Voltage 1.harmonic L3 – L1	HARM_U1_L3_L1
44583	float			NULL
44585	float	V	Voltage 2.harmonic L1 – L2	HARM_U2_L1_L2
44587	float	V	Voltage 2.harmonic L2 – L3	HARM_U2_L2_L3
44589	float	V	Voltage 2.harmonic L3 – L1	HARM_U2_L3_L1
44591	float			NULL
44593	float	V	Voltage 3.harmonic L1 – L2	HARM_U3_L1_L2
44595	float	V	Voltage 3.harmonic L2 – L3	HARM_U3_L2_L3
44597	float	V	Voltage 3.harmonic L3 – L1	HARM_U3_L3_L1

44599	float			NULL
44601	float	V	Voltage 4.harmonic L1 – L2	HARM U4 L1 L2
44603	float	V	Voltage 4.harmonic L2 – L3	HARM U4 L2 L3
44605	float	V	Voltage 4.harmonic L3 – L1	HARM U4 L3 L1
44607	float			NULL
44609	float	V	Voltage 5.harmonic L1 – L2	HARM U5 L1 L2
44611	float	V	Voltage 5.harmonic L2 – L3	HARM U5 L2 L3
44613	float	V	Voltage 5.harmonic L3 – L1	HARM U5 L3 L1
44615	float			NULL
44617	float	V	Voltage 6.harmonic L1 – L2	HARM U6 L1 L2
44619	float	V	Voltage 6.harmonic L2 – L3	HARM U6 L2 L3
44621	float	V	Voltage 6.harmonic L3 – L1	HARM U6 L3 L1
44623	float			NULL
44625	float	V	Voltage 7.harmonic L1 – L2	HARM U7 L1 L2
44627	float	V	Voltage 7.harmonic L2 – L3	HARM U7 L2 L3
44629	float	V	Voltage 7.harmonic L3 – L1	HARM U7 L3 L1
44631	float			NULL
44633	float	V	Voltage 8.harmonic L1 – L2	HARM U8 L1 L2
44635	float	V	Voltage 8.harmonic L2 – L3	HARM U8 L2 L3
44637	float	V	Voltage 8.harmonic L3 – L1	HARM U8 L3 L1
44639	float			NULL
44641	float	V	Voltage 9.harmonic L1 – L2	HARM U9 L1 L2
44643	float	V	Voltage 9.harmonic L2 – L3	HARM U9 L2 L3
44645	float	V	Voltage 9.harmonic L3 – L1	HARM U9 L3 L1
44647	float			NULL
44649	float	V	Voltage 10.harmonic L1 – L2	HARM U10 L1 L2
44651	float	V	Voltage 10.harmonic L2 – L3	HARM U10 L2 L3
44653	float	V	Voltage 10.harmonic L3 – L1	HARM U10 L3 L1
44655	float			NULL
44657	float	V	Voltage 11.harmonic L1 – L2	HARM U11 L1 L2
44659	float	V	Voltage 11.harmonic L2 – L3	HARM U11 L2 L3
44661	float	V	Voltage 11.harmonic L3 – L1	HARM U11 L3 L1
44663	float			NULL
44665	float	V	Voltage 12.harmonic L1 – L2	HARM U12 L1 L2
44667	float	V	Voltage 12.harmonic L2 – L3	HARM U12 L2 L3
44669	float	V	Voltage 12.harmonic L3 – L1	HARM U12 L3 L1
44671	float			NULL
44673	float	V	Voltage 13.harmonic L1 – L2	HARM U13 L1 L2
44675	float	V	Voltage 13.harmonic L2 – L3	HARM U13 L2 L3
44677	float	V	Voltage 13.harmonic L3 – L1	HARM U13 L3 L1
44679	float			NULL
44681	float	V	Voltage 14.harmonic L1 – L2	HARM U14 L1 L2
44683	float	V	Voltage 14.harmonic L2 – L3	HARM U14 L2 L3
44685	float	V	Voltage 14.harmonic L3 – L1	HARM U14 L3 L1
44687	float			NULL
44689	float	V	Voltage 15.harmonic L1 – L2	HARM U15 L1 L2
44691	float	V	Voltage 15.harmonic L2 – L3	HARM U15 L2 L3
44693	float	V	Voltage 15.harmonic L3 – L1	HARM U15 L3 L1
44695	float			NULL
44697	float	V	Voltage 16.harmonic L1 – L2	HARM U16 L1 L2
44699	float	V	Voltage 16.harmonic L2 – L3	HARM U16 L2 L3
44701	float	V	Voltage 16.harmonic L3 – L1	HARM U16 L3 L1
44703	float			NULL
44705	float	V	Voltage 17.harmonic L1 – L2	HARM U17 L1 L2
44707	float	V	Voltage 17.harmonic L2 – L3	HARM U17 L2 L3
44709	float	V	Voltage 17.harmonic L3 – L1	HARM U17 L3 L1
44711	float			NULL
44713	float	V	Voltage 18.harmonic L1 – L2	HARM U18 L1 L2
44715	float	V	Voltage 18.harmonic L2 – L3	HARM U18 L2 L3
44717	float	V	Voltage 18.harmonic L3 – L1	HARM U18 L3 L1
44719	float			NULL
44721	float	V	Voltage 19.harmonic L1 – L2	HARM U19 L1 L2
44723	float	V	Voltage 19.harmonic L2 – L3	HARM U19 L2 L3
44725	float	V	Voltage 19.harmonic L3 – L1	HARM U19 L3 L1
44727	float			NULL
44729	float	V	Voltage 20.harmonic L1 – L2	HARM U20 L1 L2
44731	float	V	Voltage 20.harmonic L2 – L3	HARM U20 L2 L3
44733	float	V	Voltage 20.harmonic L3 – L1	HARM U20 L3 L1
44735	float			NULL
44737	float	V	Voltage 21.harmonic L1 – L2	HARM U21 L1 L2
44739	float	V	Voltage 21.harmonic L2 – L3	HARM U21 L2 L3
44741	float	V	Voltage 21.harmonic L3 – L1	HARM U21 L3 L1
44743	float			NULL
44745	float	V	Voltage 22.harmonic L1 – L2	HARM U22 L1 L2
44747	float	V	Voltage 22.harmonic L2 – L3	HARM U22 L2 L3
44749	float	V	Voltage 22.harmonic L3 – L1	HARM U22 L3 L1
44751	float			NULL
44753	float	V	Voltage 23.harmonic L1 – L2	HARM U23 L1 L2
44755	float	V	Voltage 23.harmonic L2 – L3	HARM U23 L2 L3
44757	float	V	Voltage 23.harmonic L3 – L1	HARM U23 L3 L1
44759	float			NULL
44761	float	V	Voltage 24.harmonic L1 – L2	HARM U24 L1 L2
44763	float	V	Voltage 24.harmonic L2 – L3	HARM U24 L2 L3
44765	float	V	Voltage 24.harmonic L3 – L1	HARM U24 L3 L1
44767	float			NULL
44769	float	V	Voltage 25.harmonic L1 – L2	HARM U25 L1 L2
44771	float	V	Voltage 25.harmonic L2 – L3	HARM U25 L2 L3
44773	float	V	Voltage 25.harmonic L3 – L1	HARM U25 L3 L1
44775	float			NULL
44777	float	V	Voltage 26.harmonic L1 – L2	HARM U26 L1 L2
44779	float	V	Voltage 26.harmonic L2 – L3	HARM U26 L2 L3
44781	float	V	Voltage 26.harmonic L3 – L1	HARM U26 L3 L1
44783	float			NULL
44785	float	V	Voltage 27.harmonic L1 – L2	HARM U27 L1 L2
44787	float	V	Voltage 27.harmonic L2 – L3	HARM U27 L2 L3
44789	float	V	Voltage 27.harmonic L3 – L1	HARM U27 L3 L1
44791	float			NULL
44793	float	V	Voltage 28.harmonic L1 – L2	HARM U28 L1 L2
44795	float	V	Voltage 28.harmonic L2 – L3	HARM U28 L2 L3
44797	float	V	Voltage 28.harmonic L3 – L1	HARM U28 L3 L1
44799	float			NULL
44801	float	V	Voltage 29.harmonic L1 – L2	HARM U29 L1 L2
44803	float	V	Voltage 29.harmonic L2 – L3	HARM U29 L2 L3

44805	float	V	Voltage 29.harmonic L3 – L1	HARM U29 L3 L1
44807	float			NULL
44809	float	V	Voltage 30.harmonic L1 – L2	HARM U30 L1 L2
44811	float	V	Voltage 30.harmonic L2 – L3	HARM U30 L2 L3
44813	float	V	Voltage 30.harmonic L3 – L1	HARM U30 L3 L1
44815	float			NULL
44817	float	V	Voltage 31.harmonic L1 – L2	HARM U31 L1 L2
44819	float	V	Voltage 31.harmonic L2 – L3	HARM U31 L2 L3
44821	float	V	Voltage 31.harmonic L3 – L1	HARM U31 L3 L1
44823	float			NULL
44825	float	V	Voltage 32.harmonic L1 – L2	HARM U32 L1 L2
44827	float	V	Voltage 32.harmonic L2 – L3	HARM U32 L2 L3
44829	float	V	Voltage 32.harmonic L3 – L1	HARM U32 L3 L1
44831	float			NULL
44833	float	V	Voltage 33.harmonic L1 – L2	HARM U33 L1 L2
44835	float	V	Voltage 33.harmonic L2 – L3	HARM U33 L2 L3
44837	float	V	Voltage 33.harmonic L3 – L1	HARM U33 L3 L1
44839	float			NULL
44841	float	V	Voltage 34.harmonic L1 – L2	HARM U34 L1 L2
44843	float	V	Voltage 34.harmonic L2 – L3	HARM U34 L2 L3
44845	float	V	Voltage 34.harmonic L3 – L1	HARM U34 L3 L1
44847	float			NULL
44849	float	V	Voltage 35.harmonic L1 – L2	HARM U35 L1 L2
44851	float	V	Voltage 35.harmonic L2 – L3	HARM U35 L2 L3
44853	float	V	Voltage 35.harmonic L3 – L1	HARM U35 L3 L1
44855	float			NULL
44857	float	V	Voltage 36.harmonic L1 – L2	HARM U36 L1 L2
44859	float	V	Voltage 36.harmonic L2 – L3	HARM U36 L2 L3
44861	float	V	Voltage 36.harmonic L3 – L1	HARM U36 L3 L1
44863	float			NULL
44865	float	V	Voltage 37.harmonic L1 – L2	HARM U37 L1 L2
44867	float	V	Voltage 37.harmonic L2 – L3	HARM U37 L2 L3
44869	float	V	Voltage 37.harmonic L3 – L1	HARM U37 L3 L1
44871	float			NULL
44873	float	V	Voltage 38.harmonic L1 – L2	HARM U38 L1 L2
44875	float	V	Voltage 38.harmonic L2 – L3	HARM U38 L2 L3
44877	float	V	Voltage 38.harmonic L3 – L1	HARM U38 L3 L1
44879	float			NULL
44881	float	V	Voltage 39.harmonic L1 – L2	HARM U39 L1 L2
44883	float	V	Voltage 39.harmonic L2 – L3	HARM U39 L2 L3
44885	float	V	Voltage 39.harmonic L3 – L1	HARM U39 L3 L1
44887	float			NULL
44889	float	V	Voltage 40.harmonic L1 – L2	HARM U40 L1 L2
44891	float	V	Voltage 40.harmonic L2 – L3	HARM U40 L2 L3
44893	float	V	Voltage 40.harmonic L3 – L1	HARM U40 L3 L1
44895	float			NULL
44897	float	V	Voltage 41.harmonic L1 – L2	HARM U41 L1 L2
44899	float	V	Voltage 41.harmonic L2 – L3	HARM U41 L2 L3
44901	float	V	Voltage 41.harmonic L3 – L1	HARM U41 L3 L1
44903	float			NULL
44905	float	V	Voltage 42.harmonic L1 – L2	HARM U42 L1 L2
44907	float	V	Voltage 42.harmonic L2 – L3	HARM U42 L2 L3
44909	float	V	Voltage 42.harmonic L3 – L1	HARM U42 L3 L1
44911	float			NULL
44913	float	V	Voltage 43.harmonic L1 – L2	HARM U43 L1 L2
44915	float	V	Voltage 43.harmonic L2 – L3	HARM U43 L2 L3
44917	float	V	Voltage 43.harmonic L3 – L1	HARM U43 L3 L1
44919	float			NULL
44921	float	V	Voltage 44.harmonic L1 – L2	HARM U44 L1 L2
44923	float	V	Voltage 44.harmonic L2 – L3	HARM U44 L2 L3
44925	float	V	Voltage 44.harmonic L3 – L1	HARM U44 L3 L1
44927	float			NULL
44929	float	V	Voltage 45.harmonic L1 – L2	HARM U45 L1 L2
44931	float	V	Voltage 45.harmonic L2 – L3	HARM U45 L2 L3
44933	float	V	Voltage 45.harmonic L3 – L1	HARM U45 L3 L1
44935	float			NULL
44937	float	V	Voltage 46.harmonic L1 – L2	HARM U46 L1 L2
44939	float	V	Voltage 46.harmonic L2 – L3	HARM U46 L2 L3
44941	float	V	Voltage 46.harmonic L3 – L1	HARM U46 L3 L1
44943	float			NULL
44945	float	V	Voltage 47.harmonic L1 – L2	HARM U47 L1 L2
44947	float	V	Voltage 47.harmonic L2 – L3	HARM U47 L2 L3
44949	float	V	Voltage 47.harmonic L3 – L1	HARM U47 L3 L1
44951	float			NULL
44953	float	V	Voltage 48.harmonic L1 – L2	HARM U48 L1 L2
44955	float	V	Voltage 48.harmonic L2 – L3	HARM U48 L2 L3
44957	float	V	Voltage 48.harmonic L3 – L1	HARM U48 L3 L1
44959	float			NULL
44961	float	V	Voltage 49.harmonic L1 – L2	HARM U49 L1 L2
44963	float	V	Voltage 49.harmonic L2 – L3	HARM U49 L2 L3
44965	float	V	Voltage 49.harmonic L3 – L1	HARM U49 L3 L1
44967	float			NULL
44969	float	V	Voltage 50.harmonic L1 – L2	HARM U50 L1 L2
44971	float	V	Voltage 50.harmonic L2 – L3	HARM U50 L2 L3
44973	float	V	Voltage 50.harmonic L3 – L1	HARM U50 L3 L1
44975	float			NULL
44977	float	V	Voltage 51.harmonic L1 – L2	HARM U51 L1 L2
44979	float	V	Voltage 51.harmonic L2 – L3	HARM U51 L2 L3
44981	float	V	Voltage 51.harmonic L3 – L1	HARM U51 L3 L1
44983	float			NULL
44985	float	V	Voltage 52.harmonic L1 – L2	HARM U52 L1 L2
44987	float	V	Voltage 52.harmonic L2 – L3	HARM U52 L2 L3
44989	float	V	Voltage 52.harmonic L3 – L1	HARM U52 L3 L1
44991	float			NULL
44993	float	V	Voltage 53.harmonic L1 – L2	HARM U53 L1 L2
44995	float	V	Voltage 53.harmonic L2 – L3	HARM U53 L2 L3
44997	float	V	Voltage 53.harmonic L3 – L1	HARM U53 L3 L1
44999	float			NULL
45001	float	V	Voltage 54.harmonic L1 – L2	HARM U54 L1 L2
45003	float	V	Voltage 54.harmonic L2 – L3	HARM U54 L2 L3
45005	float	V	Voltage 54.harmonic L3 – L1	HARM U54 L3 L1
45007	float			NULL
45009	float	V	Voltage 55.harmonic L1 – L2	HARM U55 L1 L2

45011	float	V	Voltage 55.harmonic L2 – L3	HARM U55 L2 L3
45013	float	V	Voltage 55.harmonic L3 – L1	HARM U55 L3 L1
45015	float			NULL
45017	float	V	Voltage 56.harmonic L1 – L2	HARM U56 L1 L2
45019	float	V	Voltage 56.harmonic L2 – L3	HARM U56 L2 L3
45021	float	V	Voltage 56.harmonic L3 – L1	HARM U56 L3 L1
45023	float			NULL
45025	float	V	Voltage 57.harmonic L1 – L2	HARM U57 L1 L2
45027	float	V	Voltage 57.harmonic L2 – L3	HARM U57 L2 L3
45029	float	V	Voltage 57.harmonic L3 – L1	HARM U57 L3 L1
45031	float			NULL
45033	float	V	Voltage 58.harmonic L1 – L2	HARM U58 L1 L2
45035	float	V	Voltage 58.harmonic L2 – L3	HARM U58 L2 L3
45037	float	V	Voltage 58.harmonic L3 – L1	HARM U58 L3 L1
45039	float			NULL
45041	float	V	Voltage 59.harmonic L1 – L2	HARM U59 L1 L2
45043	float	V	Voltage 59.harmonic L2 – L3	HARM U59 L2 L3
45045	float	V	Voltage 59.harmonic L3 – L1	HARM U59 L3 L1
45047	float			NULL
45049	float	V	Voltage 60.harmonic L1 – L2	HARM U60 L1 L2
45051	float	V	Voltage 60.harmonic L2 – L3	HARM U60 L2 L3
45053	float	V	Voltage 60.harmonic L3 – L1	HARM U60 L3 L1
45055	float			NULL
45057	float	V	Voltage 61.harmonic L1 – L2	HARM U61 L1 L2
45059	float	V	Voltage 61.harmonic L2 – L3	HARM U61 L2 L3
45061	float	V	Voltage 61.harmonic L3 – L1	HARM U61 L3 L1
45063	float			NULL
45065	float	V	Voltage 62.harmonic L1 – L2	HARM U62 L1 L2
45067	float	V	Voltage 62.harmonic L2 – L3	HARM U62 L2 L3
45069	float	V	Voltage 62.harmonic L3 – L1	HARM U62 L3 L1
45071	float			NULL
45073	float	V	Voltage 63.harmonic L1 – L2	HARM U63 L1 L2
45075	float	V	Voltage 63.harmonic L2 – L3	HARM U63 L2 L3
45077	float	V	Voltage 63.harmonic L3 – L1	HARM U63 L3 L1
45079	float			NULL
45081	float	V	Voltage 64.harmonic L1 – L2	HARM U64 L1 L2
45083	float	V	Voltage 64.harmonic L2 – L3	HARM U64 L2 L3
45085	float	V	Voltage 64.harmonic L3 – L1	HARM U64 L3 L1
45087	float			NULL

**THD VLL Inter - Harmonic Order**

Address	Format	Unit	Remarks	Name
45089	float	V	Voltage 1.inter-harmonic L1 – L2	INTERHARM U1 L1 L2
45091	float	V	Voltage 1.inter-harmonic L2 – L3	INTERHARM U1 L2 L3
45093	float	V	Voltage 1.inter-harmonic L3 – L1	INTERHARM U1 L3 L1
45095	float			NULL
45097	float	V	Voltage 2.inter-harmonic L1 – L2	INTERHARM U2 L1 L2
45099	float	V	Voltage 2.inter-harmonic L2 – L3	INTERHARM U2 L2 L3
45101	float	V	Voltage 2.inter-harmonic L3 – L1	INTERHARM U2 L3 L1
45103	float			NULL
45105	float	V	Voltage 3.inter-harmonic L1 – L2	INTERHARM U3 L1 L2
45107	float	V	Voltage 3.inter-harmonic L2 – L3	INTERHARM U3 L2 L3
45109	float	V	Voltage 3.inter-harmonic L3 – L1	INTERHARM U3 L3 L1
45111	float			NULL
45113	float	V	Voltage 4.inter-harmonic L1 – L2	INTERHARM U4 L1 L2
45115	float	V	Voltage 4.inter-harmonic L2 – L3	INTERHARM U4 L2 L3
45117	float	V	Voltage 4.inter-harmonic L3 – L1	INTERHARM U4 L3 L1
45119	float			NULL
45121	float	V	Voltage 5.inter-harmonic L1 – L2	INTERHARM U5 L1 L2
45123	float	V	Voltage 5.inter-harmonic L2 – L3	INTERHARM U5 L2 L3
45125	float	V	Voltage 5.inter-harmonic L3 – L1	INTERHARM U5 L3 L1
45127	float			NULL
45129	float	V	Voltage 6.inter-harmonic L1 – L2	INTERHARM U6 L1 L2
45131	float	V	Voltage 6.inter-harmonic L2 – L3	INTERHARM U6 L2 L3
45133	float	V	Voltage 6.inter-harmonic L3 – L1	INTERHARM U6 L3 L1
45135	float			NULL
45137	float	V	Voltage 7.inter-harmonic L1 – L2	INTERHARM U7 L1 L2
45139	float	V	Voltage 7.inter-harmonic L2 – L3	INTERHARM U7 L2 L3
45141	float	V	Voltage 7.inter-harmonic L3 – L1	INTERHARM U7 L3 L1
45143	float			NULL
45145	float	V	Voltage 8.inter-harmonic L1 – L2	INTERHARM U8 L1 L2
45147	float	V	Voltage 8.inter-harmonic L2 – L3	INTERHARM U8 L2 L3
45149	float	V	Voltage 8.inter-harmonic L3 – L1	INTERHARM U8 L3 L1
45151	float			NULL
45153	float	V	Voltage 9.inter-harmonic L1 – L2	INTERHARM U9 L1 L2
45155	float	V	Voltage 9.inter-harmonic L2 – L3	INTERHARM U9 L2 L3
45157	float	V	Voltage 9.inter-harmonic L3 – L1	INTERHARM U9 L3 L1
45159	float			NULL
45161	float	V	Voltage 10.inter-harmonic L1 – L2	INTERHARM U10 L1 L2
45163	float	V	Voltage 10.inter-harmonic L2 – L3	INTERHARM U10 L2 L3
45165	float	V	Voltage 10.inter-harmonic L3 – L1	INTERHARM U10 L3 L1
45167	float			NULL
45169	float	V	Voltage 11.inter-harmonic L1 – L2	INTERHARM U11 L1 L2
45171	float	V	Voltage 11.inter-harmonic L2 – L3	INTERHARM U11 L2 L3
45173	float	V	Voltage 11.inter-harmonic L3 – L1	INTERHARM U11 L3 L1
45175	float			NULL
45177	float	V	Voltage 12.inter-harmonic L1 – L2	INTERHARM U12 L1 L2
45179	float	V	Voltage 12.inter-harmonic L2 – L3	INTERHARM U12 L2 L3
45181	float	V	Voltage 12.inter-harmonic L3 – L1	INTERHARM U12 L3 L1
45183	float			NULL
45185	float	V	Voltage 13.inter-harmonic L1 – L2	INTERHARM U13 L1 L2
45187	float	V	Voltage 13.inter-harmonic L2 – L3	INTERHARM U13 L2 L3
45189	float	V	Voltage 13.inter-harmonic L3 – L1	INTERHARM U13 L3 L1
45191	float			NULL
45193	float	V	Voltage 14.inter-harmonic L1 – L2	INTERHARM U14 L1 L2
45195	float	V	Voltage 14.inter-harmonic L2 – L3	INTERHARM U14 L2 L3
45197	float	V	Voltage 14.inter-harmonic L3 – L1	INTERHARM U14 L3 L1
45199	float			NULL
45201	float	V	Voltage 15.inter-harmonic L1 – L2	INTERHARM U15 L1 L2
45203	float	V	Voltage 15.inter-harmonic L2 – L3	INTERHARM U15 L2 L3
45205	float	V	Voltage 15.inter-harmonic L3 – L1	INTERHARM U15 L3 L1

45207	float			NULL
45209	float	V	Voltage 16.inter-harmonic L1 – L2	INTERHARM U16 L1 L2
45211	float	V	Voltage 16.inter-harmonic L2 – L3	INTERHARM U16 L2 L3
45213	float	V	Voltage 16.inter-harmonic L3 – L1	INTERHARM U16 L3 L1
45215	float			NULL
45217	float	V	Voltage 17.inter-harmonic L1 – L2	INTERHARM U17 L1 L2
45219	float	V	Voltage 17.inter-harmonic L2 – L3	INTERHARM U17 L2 L3
45221	float	V	Voltage 17.inter-harmonic L3 – L1	INTERHARM U17 L3 L1
45223	float			NULL
45225	float	V	Voltage 18.inter-harmonic L1 – L2	INTERHARM U18 L1 L2
45227	float	V	Voltage 18.inter-harmonic L2 – L3	INTERHARM U18 L2 L3
45229	float	V	Voltage 18.inter-harmonic L3 – L1	INTERHARM U18 L3 L1
45231	float			NULL
45233	float	V	Voltage 19.inter-harmonic L1 – L2	INTERHARM U19 L1 L2
45235	float	V	Voltage 19.inter-harmonic L2 – L3	INTERHARM U19 L2 L3
45237	float	V	Voltage 19.inter-harmonic L3 – L1	INTERHARM U19 L3 L1
45239	float			NULL
45241	float	V	Voltage 20.inter-harmonic L1 – L2	INTERHARM U20 L1 L2
45243	float	V	Voltage 20.inter-harmonic L2 – L3	INTERHARM U20 L2 L3
45245	float	V	Voltage 20.inter-harmonic L3 – L1	INTERHARM U20 L3 L1
45247	float			NULL
45249	float	V	Voltage 21.inter-harmonic L1 – L2	INTERHARM U21 L1 L2
45251	float	V	Voltage 21.inter-harmonic L2 – L3	INTERHARM U21 L2 L3
45253	float	V	Voltage 21.inter-harmonic L3 – L1	INTERHARM U21 L3 L1
45255	float			NULL
45257	float	V	Voltage 22.inter-harmonic L1 – L2	INTERHARM U22 L1 L2
45259	float	V	Voltage 22.inter-harmonic L2 – L3	INTERHARM U22 L2 L3
45261	float	V	Voltage 22.inter-harmonic L3 – L1	INTERHARM U22 L3 L1
45263	float			NULL
45265	float	V	Voltage 23.inter-harmonic L1 – L2	INTERHARM U23 L1 L2
45267	float	V	Voltage 23.inter-harmonic L2 – L3	INTERHARM U23 L2 L3
45269	float	V	Voltage 23.inter-harmonic L3 – L1	INTERHARM U23 L3 L1
45271	float			NULL
45273	float	V	Voltage 24.inter-harmonic L1 – L2	INTERHARM U24 L1 L2
45275	float	V	Voltage 24.inter-harmonic L2 – L3	INTERHARM U24 L2 L3
45277	float	V	Voltage 24.inter-harmonic L3 – L1	INTERHARM U24 L3 L1
45279	float			NULL
45281	float	V	Voltage 25.inter-harmonic L1 – L2	INTERHARM U25 L1 L2
45283	float	V	Voltage 25.inter-harmonic L2 – L3	INTERHARM U25 L2 L3
45285	float	V	Voltage 25.inter-harmonic L3 – L1	INTERHARM U25 L3 L1
45287	float			NULL
45289	float	V	Voltage 26.inter-harmonic L1 – L2	INTERHARM U26 L1 L2
45291	float	V	Voltage 26.inter-harmonic L2 – L3	INTERHARM U26 L2 L3
45293	float	V	Voltage 26.inter-harmonic L3 – L1	INTERHARM U26 L3 L1
45295	float			NULL
45297	float	V	Voltage 27.inter-harmonic L1 – L2	INTERHARM U27 L1 L2
45299	float	V	Voltage 27.inter-harmonic L2 – L3	INTERHARM U27 L2 L3
45301	float	V	Voltage 27.inter-harmonic L3 – L1	INTERHARM U27 L3 L1
45303	float			NULL
45305	float	V	Voltage 28.inter-harmonic L1 – L2	INTERHARM U28 L1 L2
45307	float	V	Voltage 28.inter-harmonic L2 – L3	INTERHARM U28 L2 L3
45309	float	V	Voltage 28.inter-harmonic L3 – L1	INTERHARM U28 L3 L1
45311	float			NULL
45313	float	V	Voltage 29.inter-harmonic L1 – L2	INTERHARM U29 L1 L2
45315	float	V	Voltage 29.inter-harmonic L2 – L3	INTERHARM U29 L2 L3
45317	float	V	Voltage 29.inter-harmonic L3 – L1	INTERHARM U29 L3 L1
45319	float			NULL
45321	float	V	Voltage 30.inter-harmonic L1 – L2	INTERHARM U30 L1 L2
45323	float	V	Voltage 30.inter-harmonic L2 – L3	INTERHARM U30 L2 L3
45325	float	V	Voltage 30.inter-harmonic L3 – L1	INTERHARM U30 L3 L1
45327	float			NULL
45329	float	V	Voltage 31.inter-harmonic L1 – L2	INTERHARM U31 L1 L2
45331	float	V	Voltage 31.inter-harmonic L2 – L3	INTERHARM U31 L2 L3
45333	float	V	Voltage 31.inter-harmonic L3 – L1	INTERHARM U31 L3 L1
45335	float			NULL
45337	float	V	Voltage 32.inter-harmonic L1 – L2	INTERHARM U32 L1 L2
45339	float	V	Voltage 32.inter-harmonic L2 – L3	INTERHARM U32 L2 L3
45341	float	V	Voltage 32.inter-harmonic L3 – L1	INTERHARM U32 L3 L1
45343	float			NULL
45345	float	V	Voltage 33.inter-harmonic L1 – L2	INTERHARM U33 L1 L2
45347	float	V	Voltage 33.inter-harmonic L2 – L3	INTERHARM U33 L2 L3
45349	float	V	Voltage 33.inter-harmonic L3 – L1	INTERHARM U33 L3 L1
45351	float			NULL
45353	float	V	Voltage 34.inter-harmonic L1 – L2	INTERHARM U34 L1 L2
45355	float	V	Voltage 34.inter-harmonic L2 – L3	INTERHARM U34 L2 L3
45357	float	V	Voltage 34.inter-harmonic L3 – L1	INTERHARM U34 L3 L1
45359	float			NULL
45361	float	V	Voltage 35.inter-harmonic L1 – L2	INTERHARM U35 L1 L2
45363	float	V	Voltage 35.inter-harmonic L2 – L3	INTERHARM U35 L2 L3
45365	float	V	Voltage 35.inter-harmonic L3 – L1	INTERHARM U35 L3 L1
45367	float			NULL
45369	float	V	Voltage 36.inter-harmonic L1 – L2	INTERHARM U36 L1 L2
45371	float	V	Voltage 36.inter-harmonic L2 – L3	INTERHARM U36 L2 L3
45373	float	V	Voltage 36.inter-harmonic L3 – L1	INTERHARM U36 L3 L1
45375	float			NULL
45377	float	V	Voltage 37.inter-harmonic L1 – L2	INTERHARM U37 L1 L2
45379	float	V	Voltage 37.inter-harmonic L2 – L3	INTERHARM U37 L2 L3
45381	float	V	Voltage 37.inter-harmonic L3 – L1	INTERHARM U37 L3 L1
45383	float			NULL
45385	float	V	Voltage 38.inter-harmonic L1 – L2	INTERHARM U38 L1 L2
45387	float	V	Voltage 38.inter-harmonic L2 – L3	INTERHARM U38 L2 L3
45389	float	V	Voltage 38.inter-harmonic L3 – L1	INTERHARM U38 L3 L1
45391	float			NULL
45393	float	V	Voltage 39.inter-harmonic L1 – L2	INTERHARM U39 L1 L2
45395	float	V	Voltage 39.inter-harmonic L2 – L3	INTERHARM U39 L2 L3
45397	float	V	Voltage 39.inter-harmonic L3 – L1	INTERHARM U39 L3 L1
45399	float			NULL
45401	float	V	Voltage 40.inter-harmonic L1 – L2	INTERHARM U40 L1 L2
45403	float	V	Voltage 40.inter-harmonic L2 – L3	INTERHARM U40 L2 L3
45405	float	V	Voltage 40.inter-harmonic L3 – L1	INTERHARM U40 L3 L1
45407	float			NULL
45409	float	V	Voltage 41.inter-harmonic L1 – L2	INTERHARM U41 L1 L2
45411	float	V	Voltage 41.inter-harmonic L2 – L3	INTERHARM U41 L2 L3

45413	float	V	Voltage 41.inter-harmonic L3 – L1	INTERHARM U41 L3 L1
45415	float			NULL
45417	float	V	Voltage 42.inter-harmonic L1 – L2	INTERHARM U42 L1 L2
45419	float	V	Voltage 42.inter-harmonic L2 – L3	INTERHARM U42 L2 L3
45421	float	V	Voltage 42.inter-harmonic L3 – L1	INTERHARM U42 L3 L1
45423	float			NULL
45425	float	V	Voltage 43.inter-harmonic L1 – L2	INTERHARM U43 L1 L2
45427	float	V	Voltage 43.inter-harmonic L2 – L3	INTERHARM U43 L2 L3
45429	float	V	Voltage 43.inter-harmonic L3 – L1	INTERHARM U43 L3 L1
45431	float			NULL
45433	float	V	Voltage 44.inter-harmonic L1 – L2	INTERHARM U44 L1 L2
45435	float	V	Voltage 44.inter-harmonic L2 – L3	INTERHARM U44 L2 L3
45437	float	V	Voltage 44.inter-harmonic L3 – L1	INTERHARM U44 L3 L1
45439	float			NULL
45441	float	V	Voltage 45.inter-harmonic L1 – L2	INTERHARM U45 L1 L2
45443	float	V	Voltage 45.inter-harmonic L2 – L3	INTERHARM U45 L2 L3
45445	float	V	Voltage 45.inter-harmonic L3 – L1	INTERHARM U45 L3 L1
45447	float			NULL
45449	float	V	Voltage 46.inter-harmonic L1 – L2	INTERHARM U46 L1 L2
45451	float	V	Voltage 46.inter-harmonic L2 – L3	INTERHARM U46 L2 L3
45453	float	V	Voltage 46.inter-harmonic L3 – L1	INTERHARM U46 L3 L1
45455	float			NULL
45457	float	V	Voltage 47.inter-harmonic L1 – L2	INTERHARM U47 L1 L2
45459	float	V	Voltage 47.inter-harmonic L2 – L3	INTERHARM U47 L2 L3
45461	float	V	Voltage 47.inter-harmonic L3 – L1	INTERHARM U47 L3 L1
45463	float			NULL
45465	float	V	Voltage 48.inter-harmonic L1 – L2	INTERHARM U48 L1 L2
45467	float	V	Voltage 48.inter-harmonic L2 – L3	INTERHARM U48 L2 L3
45469	float	V	Voltage 48.inter-harmonic L3 – L1	INTERHARM U48 L3 L1
45471	float			NULL
45473	float	V	Voltage 49.inter-harmonic L1 – L2	INTERHARM U49 L1 L2
45475	float	V	Voltage 49.inter-harmonic L2 – L3	INTERHARM U49 L2 L3
45477	float	V	Voltage 49.inter-harmonic L3 – L1	INTERHARM U49 L3 L1
45479	float			NULL
45481	float	V	Voltage 50.inter-harmonic L1 – L2	INTERHARM U50 L1 L2
45483	float	V	Voltage 50.inter-harmonic L2 – L3	INTERHARM U50 L2 L3
45485	float	V	Voltage 50.inter-harmonic L3 – L1	INTERHARM U50 L3 L1
45487	float			NULL
45489	float	V	Voltage 51.inter-harmonic L1 – L2	INTERHARM U51 L1 L2
45491	float	V	Voltage 51.inter-harmonic L2 – L3	INTERHARM U51 L2 L3
45493	float	V	Voltage 51.inter-harmonic L3 – L1	INTERHARM U51 L3 L1
45495	float			NULL
45497	float	V	Voltage 52.inter-harmonic L1 – L2	INTERHARM U52 L1 L2
45499	float	V	Voltage 52.inter-harmonic L2 – L3	INTERHARM U52 L2 L3
45501	float	V	Voltage 52.inter-harmonic L3 – L1	INTERHARM U52 L3 L1
45503	float			NULL
45505	float	V	Voltage 53.inter-harmonic L1 – L2	INTERHARM U53 L1 L2
45507	float	V	Voltage 53.inter-harmonic L2 – L3	INTERHARM U53 L2 L3
45509	float	V	Voltage 53.inter-harmonic L3 – L1	INTERHARM U53 L3 L1
45511	float			NULL
45513	float	V	Voltage 54.inter-harmonic L1 – L2	INTERHARM U54 L1 L2
45515	float	V	Voltage 54.inter-harmonic L2 – L3	INTERHARM U54 L2 L3
45517	float	V	Voltage 54.inter-harmonic L3 – L1	INTERHARM U54 L3 L1
45519	float			NULL
45521	float	V	Voltage 55.inter-harmonic L1 – L2	INTERHARM U55 L1 L2
45523	float	V	Voltage 55.inter-harmonic L2 – L3	INTERHARM U55 L2 L3
45525	float	V	Voltage 55.inter-harmonic L3 – L1	INTERHARM U55 L3 L1
45527	float			NULL
45529	float	V	Voltage 56.inter-harmonic L1 – L2	INTERHARM U56 L1 L2
45531	float	V	Voltage 56.inter-harmonic L2 – L3	INTERHARM U56 L2 L3
45533	float	V	Voltage 56.inter-harmonic L3 – L1	INTERHARM U56 L3 L1
45535	float			NULL
45537	float	V	Voltage 57.inter-harmonic L1 – L2	INTERHARM U57 L1 L2
45539	float	V	Voltage 57.inter-harmonic L2 – L3	INTERHARM U57 L2 L3
45541	float	V	Voltage 57.inter-harmonic L3 – L1	INTERHARM U57 L3 L1
45543	float			NULL
45545	float	V	Voltage 58.inter-harmonic L1 – L2	INTERHARM U58 L1 L2
45547	float	V	Voltage 58.inter-harmonic L2 – L3	INTERHARM U58 L2 L3
45549	float	V	Voltage 58.inter-harmonic L3 – L1	INTERHARM U58 L3 L1
45551	float			NULL
45553	float	V	Voltage 59.inter-harmonic L1 – L2	INTERHARM U59 L1 L2
45555	float	V	Voltage 59.inter-harmonic L2 – L3	INTERHARM U59 L2 L3
45557	float	V	Voltage 59.inter-harmonic L3 – L1	INTERHARM U59 L3 L1
45559	float			NULL
45561	float	V	Voltage 60.inter-harmonic L1 – L2	INTERHARM U60 L1 L2
45563	float	V	Voltage 60.inter-harmonic L2 – L3	INTERHARM U60 L2 L3
45565	float	V	Voltage 60.inter-harmonic L3 – L1	INTERHARM U60 L3 L1
45567	float			NULL
45569	float	V	Voltage 61.inter-harmonic L1 – L2	INTERHARM U61 L1 L2
45571	float	V	Voltage 61.inter-harmonic L2 – L3	INTERHARM U61 L2 L3
45573	float	V	Voltage 61.inter-harmonic L3 – L1	INTERHARM U61 L3 L1
45575	float			NULL
45577	float	V	Voltage 62.inter-harmonic L1 – L2	INTERHARM U62 L1 L2
45579	float	V	Voltage 62.inter-harmonic L2 – L3	INTERHARM U62 L2 L3
45581	float	V	Voltage 62.inter-harmonic L3 – L1	INTERHARM U62 L3 L1
45583	float			NULL
45585	float	V	Voltage 63.inter-harmonic L1 – L2	INTERHARM U63 L1 L2
45587	float	V	Voltage 63.inter-harmonic L2 – L3	INTERHARM U63 L2 L3
45589	float	V	Voltage 63.inter-harmonic L3 – L1	INTERHARM U63 L3 L1
45591	float			NULL
45593	float	V	Voltage 64.inter-harmonic L1 – L2	INTERHARM U64 L1 L2
45595	float	V	Voltage 64.inter-harmonic L2 – L3	INTERHARM U64 L2 L3
45597	float	V	Voltage 64.inter-harmonic L3 – L1	INTERHARM U64 L3 L1
45599	float			NULL

**THD VLL Group Harmonic Order**

Address	Format	Unit	Remarks	Name
45601	float	V	Voltage 1.group harmonic L1 – L2	GROUP HARM U1 L1 L2
45603	float	V	Voltage 1.group harmonic L2 – L3	GROUP HARM U1 L2 L3
45605	float	V	Voltage 1.group harmonic L3 – L1	GROUP HARM U1 L3 L1
45607	float			NULL

45609	float	V	Voltage 2.group harmonic L1 – L2	GROUP HARM U2 L1 L2
45611	float	V	Voltage 2.group harmonic L2 – L3	GROUP HARM U2 L2 L3
45613	float	V	Voltage 2.group harmonic L3 – L1	GROUP HARM U2 L3 L1
45615	float			NULL
45617	float	V	Voltage 3.group harmonic L1 – L2	GROUP HARM U3 L1 L2
45619	float	V	Voltage 3.group harmonic L2 – L3	GROUP HARM U3 L2 L3
45621	float	V	Voltage 3.group harmonic L3 – L1	GROUP HARM U3 L3 L1
45623	float			NULL
45625	float	V	Voltage 4.group harmonic L1 – L2	GROUP HARM U4 L1 L2
45627	float	V	Voltage 4.group harmonic L2 – L3	GROUP HARM U4 L2 L3
45629	float	V	Voltage 4.group harmonic L3 – L1	GROUP HARM U4 L3 L1
45631	float			NULL
45633	float	V	Voltage 5.group harmonic L1 – L2	GROUP HARM U5 L1 L2
45635	float	V	Voltage 5.group harmonic L2 – L3	GROUP HARM U5 L2 L3
45637	float	V	Voltage 5.group harmonic L3 – L1	GROUP HARM U5 L3 L1
45639	float			NULL
45641	float	V	Voltage 6.group harmonic L1 – L2	GROUP HARM U6 L1 L2
45643	float	V	Voltage 6.group harmonic L2 – L3	GROUP HARM U6 L2 L3
45645	float	V	Voltage 6.group harmonic L3 – L1	GROUP HARM U6 L3 L1
45647	float			NULL
45649	float	V	Voltage 7.group harmonic L1 – L2	GROUP HARM U7 L1 L2
45651	float	V	Voltage 7.group harmonic L2 – L3	GROUP HARM U7 L2 L3
45653	float	V	Voltage 7.group harmonic L3 – L1	GROUP HARM U7 L3 L1
45655	float			NULL
45657	float	V	Voltage 8.group harmonic L1 – L2	GROUP HARM U8 L1 L2
45659	float	V	Voltage 8.group harmonic L2 – L3	GROUP HARM U8 L2 L3
45661	float	V	Voltage 8.group harmonic L3 – L1	GROUP HARM U8 L3 L1
45663	float			NULL
45665	float	V	Voltage 9.group harmonic L1 – L2	GROUP HARM U9 L1 L2
45667	float	V	Voltage 9.group harmonic L2 – L3	GROUP HARM U9 L2 L3
45669	float	V	Voltage 9.group harmonic L3 – L1	GROUP HARM U9 L3 L1
45671	float			NULL
45673	float	V	Voltage 10.group harmonic L1 – L2	GROUP HARM U10 L1 L2
45675	float	V	Voltage 10.group harmonic L2 – L3	GROUP HARM U10 L2 L3
45677	float	V	Voltage 10.group harmonic L3 – L1	GROUP HARM U10 L3 L1
45679	float			NULL
45681	float	V	Voltage 11.group harmonic L1 – L2	GROUP HARM U11 L1 L2
45683	float	V	Voltage 11.group harmonic L2 – L3	GROUP HARM U11 L2 L3
45685	float	V	Voltage 11.group harmonic L3 – L1	GROUP HARM U11 L3 L1
45687	float			NULL
45689	float	V	Voltage 12.group harmonic L1 – L2	GROUP HARM U12 L1 L2
45691	float	V	Voltage 12.group harmonic L2 – L3	GROUP HARM U12 L2 L3
45693	float	V	Voltage 12.group harmonic L3 – L1	GROUP HARM U12 L3 L1
45695	float			NULL
45697	float	V	Voltage 13.group harmonic L1 – L2	GROUP HARM U13 L1 L2
45699	float	V	Voltage 13.group harmonic L2 – L3	GROUP HARM U13 L2 L3
45701	float	V	Voltage 13.group harmonic L3 – L1	GROUP HARM U13 L3 L1
45703	float			NULL
45705	float	V	Voltage 14.group harmonic L1 – L2	GROUP HARM U14 L1 L2
45707	float	V	Voltage 14.group harmonic L2 – L3	GROUP HARM U14 L2 L3
45709	float	V	Voltage 14.group harmonic L3 – L1	GROUP HARM U14 L3 L1
45711	float			NULL
45713	float	V	Voltage 15.group harmonic L1 – L2	GROUP HARM U15 L1 L2
45715	float	V	Voltage 15.group harmonic L2 – L3	GROUP HARM U15 L2 L3
45717	float	V	Voltage 15.group harmonic L3 – L1	GROUP HARM U15 L3 L1
45719	float			NULL
45721	float	V	Voltage 16.group harmonic L1 – L2	GROUP HARM U16 L1 L2
45723	float	V	Voltage 16.group harmonic L2 – L3	GROUP HARM U16 L2 L3
45725	float	V	Voltage 16.group harmonic L3 – L1	GROUP HARM U16 L3 L1
45727	float			NULL
45729	float	V	Voltage 17.group harmonic L1 – L2	GROUP HARM U17 L1 L2
45731	float	V	Voltage 17.group harmonic L2 – L3	GROUP HARM U17 L2 L3
45733	float	V	Voltage 17.group harmonic L3 – L1	GROUP HARM U17 L3 L1
45735	float			NULL
45737	float	V	Voltage 18.group harmonic L1 – L2	GROUP HARM U18 L1 L2
45739	float	V	Voltage 18.group harmonic L2 – L3	GROUP HARM U18 L2 L3
45741	float	V	Voltage 18.group harmonic L3 – L1	GROUP HARM U18 L3 L1
45743	float			NULL
45745	float	V	Voltage 19.group harmonic L1 – L2	GROUP HARM U19 L1 L2
45747	float	V	Voltage 19.group harmonic L2 – L3	GROUP HARM U19 L2 L3
45749	float	V	Voltage 19.group harmonic L3 – L1	GROUP HARM U19 L3 L1
45751	float			NULL
45753	float	V	Voltage 20.group harmonic L1 – L2	GROUP HARM U20 L1 L2
45755	float	V	Voltage 20.group harmonic L2 – L3	GROUP HARM U20 L2 L3
45757	float	V	Voltage 20.group harmonic L3 – L1	GROUP HARM U20 L3 L1
45759	float			NULL
45761	float	V	Voltage 21.group harmonic L1 – L2	GROUP HARM U21 L1 L2
45763	float	V	Voltage 21.group harmonic L2 – L3	GROUP HARM U21 L2 L3
45765	float	V	Voltage 21.group harmonic L3 – L1	GROUP HARM U21 L3 L1
45767	float			NULL
45769	float	V	Voltage 22.group harmonic L1 – L2	GROUP HARM U22 L1 L2
45771	float	V	Voltage 22.group harmonic L2 – L3	GROUP HARM U22 L2 L3
45773	float	V	Voltage 22.group harmonic L3 – L1	GROUP HARM U22 L3 L1
45775	float			NULL
45777	float	V	Voltage 23.group harmonic L1 – L2	GROUP HARM U23 L1 L2
45779	float	V	Voltage 23.group harmonic L2 – L3	GROUP HARM U23 L2 L3
45781	float	V	Voltage 23.group harmonic L3 – L1	GROUP HARM U23 L3 L1
45783	float			NULL
45785	float	V	Voltage 24.group harmonic L1 – L2	GROUP HARM U24 L1 L2
45787	float	V	Voltage 24.group harmonic L2 – L3	GROUP HARM U24 L2 L3
45789	float	V	Voltage 24.group harmonic L3 – L1	GROUP HARM U24 L3 L1
45791	float			NULL
45793	float	V	Voltage 25.group harmonic L1 – L2	GROUP HARM U25 L1 L2
45795	float	V	Voltage 25.group harmonic L2 – L3	GROUP HARM U25 L2 L3
45797	float	V	Voltage 25.group harmonic L3 – L1	GROUP HARM U25 L3 L1
45799	float			NULL
45801	float	V	Voltage 26.group harmonic L1 – L2	GROUP HARM U26 L1 L2
45803	float	V	Voltage 26.group harmonic L2 – L3	GROUP HARM U26 L2 L3
45805	float	V	Voltage 26.group harmonic L3 – L1	GROUP HARM U26 L3 L1
45807	float			NULL
45809	float	V	Voltage 27.group harmonic L1 – L2	GROUP HARM U27 L1 L2
45811	float	V	Voltage 27.group harmonic L2 – L3	GROUP HARM U27 L2 L3
45813	float	V	Voltage 27.group harmonic L3 – L1	GROUP HARM U27 L3 L1





46021	float	V	Voltage 53.group harmonic L3 – L1	GROUP_HARM_U53_L3_L1
46023	float			NULL
46025	float	V	Voltage 54.group harmonic L1 – L2	GROUP_HARM_U54_L1_L2
46027	float	V	Voltage 54.group harmonic L2 – L3	GROUP_HARM_U54_L2_L3
46029	float	V	Voltage 54.group harmonic L3 – L1	GROUP_HARM_U54_L3_L1
46031	float			NULL
46033	float	V	Voltage 55.group harmonic L1 – L2	GROUP_HARM_U55_L1_L2
46035	float	V	Voltage 55.group harmonic L2 – L3	GROUP_HARM_U55_L2_L3
46037	float	V	Voltage 55.group harmonic L3 – L1	GROUP_HARM_U55_L3_L1
46039	float			NULL
46041	float	V	Voltage 56.group harmonic L1 – L2	GROUP_HARM_U56_L1_L2
46043	float	V	Voltage 56.group harmonic L2 – L3	GROUP_HARM_U56_L2_L3
46045	float	V	Voltage 56.group harmonic L3 – L1	GROUP_HARM_U56_L3_L1
46047	float			NULL
46049	float	V	Voltage 57.group harmonic L1 – L2	GROUP_HARM_U57_L1_L2
46051	float	V	Voltage 57.group harmonic L2 – L3	GROUP_HARM_U57_L2_L3
46053	float	V	Voltage 57.group harmonic L3 – L1	GROUP_HARM_U57_L3_L1
46055	float			NULL
46057	float	V	Voltage 58.group harmonic L1 – L2	GROUP_HARM_U58_L1_L2
46059	float	V	Voltage 58.group harmonic L2 – L3	GROUP_HARM_U58_L2_L3
46061	float	V	Voltage 58.group harmonic L3 – L1	GROUP_HARM_U58_L3_L1
46063	float			NULL
46065	float	V	Voltage 59.group harmonic L1 – L2	GROUP_HARM_U59_L1_L2
46067	float	V	Voltage 59.group harmonic L2 – L3	GROUP_HARM_U59_L2_L3
46069	float	V	Voltage 59.group harmonic L3 – L1	GROUP_HARM_U59_L3_L1
46071	float			NULL
46073	float	V	Voltage 60.group harmonic L1 – L2	GROUP_HARM_U60_L1_L2
46075	float	V	Voltage 60.group harmonic L2 – L3	GROUP_HARM_U60_L2_L3
46077	float	V	Voltage 60.group harmonic L3 – L1	GROUP_HARM_U60_L3_L1
46079	float			NULL
46081	float	V	Voltage 61.group harmonic L1 – L2	GROUP_HARM_U61_L1_L2
46083	float	V	Voltage 61.group harmonic L2 – L3	GROUP_HARM_U61_L2_L3
46085	float	V	Voltage 61.group harmonic L3 – L1	GROUP_HARM_U61_L3_L1
46087	float			NULL
46089	float	V	Voltage 62.group harmonic L1 – L2	GROUP_HARM_U62_L1_L2
46091	float	V	Voltage 62.group harmonic L2 – L3	GROUP_HARM_U62_L2_L3
46093	float	V	Voltage 62.group harmonic L3 – L1	GROUP_HARM_U62_L3_L1
46095	float			NULL
46097	float	V	Voltage 63.group harmonic L1 – L2	GROUP_HARM_U63_L1_L2
46099	float	V	Voltage 63.group harmonic L2 – L3	GROUP_HARM_U63_L2_L3
46101	float	V	Voltage 63.group harmonic L3 – L1	GROUP_HARM_U63_L3_L1
46103	float			NULL
46105	float	V	Voltage 64.group harmonic L1 – L2	GROUP_HARM_U64_L1_L2
46107	float	V	Voltage 64.group harmonic L2 – L3	GROUP_HARM_U64_L2_L3
46109	float	V	Voltage 64.group harmonic L3 – L1	GROUP_HARM_U64_L3_L1
46111	float			NULL

### THD I Harmonic Order

Address	Format	Unit	Remarks	Name
42017	float	A	Current 1.harmonic L1	HARM_I1_L1
42019	float	A	Current 1.harmonic L2	HARM_I1_L2
42021	float	A	Current 1.harmonic L3	HARM_I1_L3
42023	float	A	Current 1.harmonic L4	HARM_I1_L4
42025	float	A	Current 2.harmonic L1	HARM_I2_L1
42027	float	A	Current 2.harmonic L2	HARM_I2_L2
42029	float	A	Current 2.harmonic L3	HARM_I2_L3
42031	float	A	Current 2.harmonic L4	HARM_I2_L4
42033	float	A	Current 3.harmonic L1	HARM_I3_L1
42035	float	A	Current 3.harmonic L2	HARM_I3_L2
42037	float	A	Current 3.harmonic L3	HARM_I3_L3
42039	float	A	Current 3.harmonic L4	HARM_I3_L4
42041	float	A	Current 4.harmonic L1	HARM_I4_L1
42043	float	A	Current 4.harmonic L2	HARM_I4_L2
42045	float	A	Current 4.harmonic L3	HARM_I4_L3
42047	float	A	Current 4.harmonic L4	HARM_I4_L4
42049	float	A	Current 5.harmonic L1	HARM_I5_L1
42051	float	A	Current 5.harmonic L2	HARM_I5_L2
42053	float	A	Current 5.harmonic L3	HARM_I5_L3
42055	float	A	Current 5.harmonic L4	HARM_I5_L4
42057	float	A	Current 6.harmonic L1	HARM_I6_L1
42059	float	A	Current 6.harmonic L2	HARM_I6_L2
42061	float	A	Current 6.harmonic L3	HARM_I6_L3
42063	float	A	Current 6.harmonic L4	HARM_I6_L4
42065	float	A	Current 7.harmonic L1	HARM_I7_L1
42067	float	A	Current 7.harmonic L2	HARM_I7_L2
42069	float	A	Current 7.harmonic L3	HARM_I7_L3
42071	float	A	Current 7.harmonic L4	HARM_I7_L4
42073	float	A	Current 8.harmonic L1	HARM_I8_L1
42075	float	A	Current 8.harmonic L2	HARM_I8_L2
42077	float	A	Current 8.harmonic L3	HARM_I8_L3
42079	float	A	Current 8.harmonic L4	HARM_I8_L4
42081	float	A	Current 9.harmonic L1	HARM_I9_L1
42083	float	A	Current 9.harmonic L2	HARM_I9_L2
42085	float	A	Current 9.harmonic L3	HARM_I9_L3
42087	float	A	Current 9.harmonic L4	HARM_I9_L4
42089	float	A	Current 10.harmonic L1	HARM_I10_L1
42091	float	A	Current 10.harmonic L2	HARM_I10_L2
42093	float	A	Current 10.harmonic L3	HARM_I10_L3
42095	float	A	Current 10.harmonic L4	HARM_I10_L4
42097	float	A	Current 11.harmonic L1	HARM_I11_L1
42099	float	A	Current 11.harmonic L2	HARM_I11_L2
42101	float	A	Current 11.harmonic L3	HARM_I11_L3
42103	float	A	Current 11.harmonic L4	HARM_I11_L4
42105	float	A	Current 12.harmonic L1	HARM_I12_L1
42107	float	A	Current 12.harmonic L2	HARM_I12_L2
42109	float	A	Current 12.harmonic L3	HARM_I12_L3
42111	float	A	Current 12.harmonic L4	HARM_I12_L4
42113	float	A	Current 13.harmonic L1	HARM_I13_L1
42115	float	A	Current 13.harmonic L2	HARM_I13_L2
42117	float	A	Current 13.harmonic L3	HARM_I13_L3
42119	float	A	Current 13.harmonic L4	HARM_I13_L4

42121	float	A	Current 14.harmonic L1	HARM I14 L1
42123	float	A	Current 14.harmonic L2	HARM I14 L2
42125	float	A	Current 14.harmonic L3	HARM I14 L3
42127	float	A	Current 14.harmonic L4	HARM I14 L4
42129	float	A	Current 15.harmonic L1	HARM I15 L1
42131	float	A	Current 15.harmonic L2	HARM I15 L2
42133	float	A	Current 15.harmonic L3	HARM I15 L3
42135	float	A	Current 15.harmonic L4	HARM I15 L4
42137	float	A	Current 16.harmonic L1	HARM I16 L1
42139	float	A	Current 16.harmonic L2	HARM I16 L2
42141	float	A	Current 16.harmonic L3	HARM I16 L3
42143	float	A	Current 16.harmonic L4	HARM I16 L4
42145	float	A	Current 17.harmonic L1	HARM I17 L1
42147	float	A	Current 17.harmonic L2	HARM I17 L2
42149	float	A	Current 17.harmonic L3	HARM I17 L3
42151	float	A	Current 17.harmonic L4	HARM I17 L4
42153	float	A	Current 18.harmonic L1	HARM I18 L1
42155	float	A	Current 18.harmonic L2	HARM I18 L2
42157	float	A	Current 18.harmonic L3	HARM I18 L3
42159	float	A	Current 18.harmonic L4	HARM I18 L4
42161	float	A	Current 19.harmonic L1	HARM I19 L1
42163	float	A	Current 19.harmonic L2	HARM I19 L2
42165	float	A	Current 19.harmonic L3	HARM I19 L3
42167	float	A	Current 19.harmonic L4	HARM I19 L4
42169	float	A	Current 20.harmonic L1	HARM I20 L1
42171	float	A	Current 20.harmonic L2	HARM I20 L2
42173	float	A	Current 20.harmonic L3	HARM I20 L3
42175	float	A	Current 20.harmonic L4	HARM I20 L4
42177	float	A	Current 21.harmonic L1	HARM I21 L1
42179	float	A	Current 21.harmonic L2	HARM I21 L2
42181	float	A	Current 21.harmonic L3	HARM I21 L3
42183	float	A	Current 21.harmonic L4	HARM I21 L4
42185	float	A	Current 22.harmonic L1	HARM I22 L1
42187	float	A	Current 22.harmonic L2	HARM I22 L2
42189	float	A	Current 22.harmonic L3	HARM I22 L3
42191	float	A	Current 22.harmonic L4	HARM I22 L4
42193	float	A	Current 23.harmonic L1	HARM I23 L1
42195	float	A	Current 23.harmonic L2	HARM I23 L2
42197	float	A	Current 23.harmonic L3	HARM I23 L3
42199	float	A	Current 23.harmonic L4	HARM I23 L4
42201	float	A	Current 24.harmonic L1	HARM I24 L1
42203	float	A	Current 24.harmonic L2	HARM I24 L2
42205	float	A	Current 24.harmonic L3	HARM I24 L3
42207	float	A	Current 24.harmonic L4	HARM I24 L4
42209	float	A	Current 25.harmonic L1	HARM I25 L1
42211	float	A	Current 25.harmonic L2	HARM I25 L2
42213	float	A	Current 25.harmonic L3	HARM I25 L3
42215	float	A	Current 25.harmonic L4	HARM I25 L4
42217	float	A	Current 26.harmonic L1	HARM I26 L1
42219	float	A	Current 26.harmonic L2	HARM I26 L2
42221	float	A	Current 26.harmonic L3	HARM I26 L3
42223	float	A	Current 26.harmonic L4	HARM I26 L4
42225	float	A	Current 27.harmonic L1	HARM I27 L1
42227	float	A	Current 27.harmonic L2	HARM I27 L2
42229	float	A	Current 27.harmonic L3	HARM I27 L3
42231	float	A	Current 27.harmonic L4	HARM I27 L4
42233	float	A	Current 28.harmonic L1	HARM I28 L1
42235	float	A	Current 28.harmonic L2	HARM I28 L2
42237	float	A	Current 28.harmonic L3	HARM I28 L3
42239	float	A	Current 28.harmonic L4	HARM I28 L4
42241	float	A	Current 29.harmonic L1	HARM I29 L1
42243	float	A	Current 29.harmonic L2	HARM I29 L2
42245	float	A	Current 29.harmonic L3	HARM I29 L3
42247	float	A	Current 29.harmonic L4	HARM I29 L4
42249	float	A	Current 30.harmonic L1	HARM I30 L1
42251	float	A	Current 30.harmonic L2	HARM I30 L2
42253	float	A	Current 30.harmonic L3	HARM I30 L3
42255	float	A	Current 30.harmonic L4	HARM I30 L4
42257	float	A	Current 31.harmonic L1	HARM I31 L1
42259	float	A	Current 31.harmonic L2	HARM I31 L2
42261	float	A	Current 31.harmonic L3	HARM I31 L3
42263	float	A	Current 31.harmonic L4	HARM I31 L4
42265	float	A	Current 32.harmonic L1	HARM I32 L1
42267	float	A	Current 32.harmonic L2	HARM I32 L2
42269	float	A	Current 32.harmonic L3	HARM I32 L3
42271	float	A	Current 32.harmonic L4	HARM I32 L4
42273	float	A	Current 33.harmonic L1	HARM I33 L1
42275	float	A	Current 33.harmonic L2	HARM I33 L2
42277	float	A	Current 33.harmonic L3	HARM I33 L3
42279	float	A	Current 33.harmonic L4	HARM I33 L4
42281	float	A	Current 34.harmonic L1	HARM I34 L1
42283	float	A	Current 34.harmonic L2	HARM I34 L2
42285	float	A	Current 34.harmonic L3	HARM I34 L3
42287	float	A	Current 34.harmonic L4	HARM I34 L4
42289	float	A	Current 35.harmonic L1	HARM I35 L1
42291	float	A	Current 35.harmonic L2	HARM I35 L2
42293	float	A	Current 35.harmonic L3	HARM I35 L3
42295	float	A	Current 35.harmonic L4	HARM I35 L4
42297	float	A	Current 36.harmonic L1	HARM I36 L1
42299	float	A	Current 36.harmonic L2	HARM I36 L2
42301	float	A	Current 36.harmonic L3	HARM I36 L3
42303	float	A	Current 36.harmonic L4	HARM I36 L4
42305	float	A	Current 37.harmonic L1	HARM I37 L1
42307	float	A	Current 37.harmonic L2	HARM I37 L2
42309	float	A	Current 37.harmonic L3	HARM I37 L3
42311	float	A	Current 37.harmonic L4	HARM I37 L4
42313	float	A	Current 38.harmonic L1	HARM I38 L1
42315	float	A	Current 38.harmonic L2	HARM I38 L2
42317	float	A	Current 38.harmonic L3	HARM I38 L3
42319	float	A	Current 38.harmonic L4	HARM I38 L4
42321	float	A	Current 39.harmonic L1	HARM I39 L1
42323	float	A	Current 39.harmonic L2	HARM I39 L2
42325	float	A	Current 39.harmonic L3	HARM I39 L3

42327	float	A	Current 39.harmonic L4	HARM I39 L4
42329	float	A	Current 40.harmonic L1	HARM I40 L1
42331	float	A	Current 40.harmonic L2	HARM I40 L2
42333	float	A	Current 40.harmonic L3	HARM I40 L3
42335	float	A	Current 40.harmonic L4	HARM I40 L4
42337	float	A	Current 41.harmonic L1	HARM I41 L1
42339	float	A	Current 41.harmonic L2	HARM I41 L2
42341	float	A	Current 41.harmonic L3	HARM I41 L3
42343	float	A	Current 41.harmonic L4	HARM I41 L4
42345	float	A	Current 42.harmonic L1	HARM I42 L1
42347	float	A	Current 42.harmonic L2	HARM I42 L2
42349	float	A	Current 42.harmonic L3	HARM I42 L3
42351	float	A	Current 42.harmonic L4	HARM I42 L4
42353	float	A	Current 43.harmonic L1	HARM I43 L1
42355	float	A	Current 43.harmonic L2	HARM I43 L2
42357	float	A	Current 43.harmonic L3	HARM I43 L3
42359	float	A	Current 43.harmonic L4	HARM I43 L4
42361	float	A	Current 44.harmonic L1	HARM I44 L1
42363	float	A	Current 44.harmonic L2	HARM I44 L2
42365	float	A	Current 44.harmonic L3	HARM I44 L3
42367	float	A	Current 44.harmonic L4	HARM I44 L4
42369	float	A	Current 45.harmonic L1	HARM I45 L1
42371	float	A	Current 45.harmonic L2	HARM I45 L2
42373	float	A	Current 45.harmonic L3	HARM I45 L3
42375	float	A	Current 45.harmonic L4	HARM I45 L4
42377	float	A	Current 46.harmonic L1	HARM I46 L1
42379	float	A	Current 46.harmonic L2	HARM I46 L2
42381	float	A	Current 46.harmonic L3	HARM I46 L3
42383	float	A	Current 46.harmonic L4	HARM I46 L4
42385	float	A	Current 47.harmonic L1	HARM I47 L1
42387	float	A	Current 47.harmonic L2	HARM I47 L2
42389	float	A	Current 47.harmonic L3	HARM I47 L3
42391	float	A	Current 47.harmonic L4	HARM I47 L4
42393	float	A	Current 48.harmonic L1	HARM I48 L1
42395	float	A	Current 48.harmonic L2	HARM I48 L2
42397	float	A	Current 48.harmonic L3	HARM I48 L3
42399	float	A	Current 48.harmonic L4	HARM I48 L4
42401	float	A	Current 49.harmonic L1	HARM I49 L1
42403	float	A	Current 49.harmonic L2	HARM I49 L2
42405	float	A	Current 49.harmonic L3	HARM I49 L3
42407	float	A	Current 49.harmonic L4	HARM I49 L4
42409	float	A	Current 50.harmonic L1	HARM I50 L1
42411	float	A	Current 50.harmonic L2	HARM I50 L2
42413	float	A	Current 50.harmonic L3	HARM I50 L3
42415	float	A	Current 50.harmonic L4	HARM I50 L4
42417	float	A	Current 51.harmonic L1	HARM I51 L1
42419	float	A	Current 51.harmonic L2	HARM I51 L2
42421	float	A	Current 51.harmonic L3	HARM I51 L3
42423	float	A	Current 51.harmonic L4	HARM I51 L4
42425	float	A	Current 52.harmonic L1	HARM I52 L1
42427	float	A	Current 52.harmonic L2	HARM I52 L2
42429	float	A	Current 52.harmonic L3	HARM I52 L3
42431	float	A	Current 52.harmonic L4	HARM I52 L4
42433	float	A	Current 53.harmonic L1	HARM I53 L1
42435	float	A	Current 53.harmonic L2	HARM I53 L2
42437	float	A	Current 53.harmonic L3	HARM I53 L3
42439	float	A	Current 53.harmonic L4	HARM I53 L4
42441	float	A	Current 54.harmonic L1	HARM I54 L1
42443	float	A	Current 54.harmonic L2	HARM I54 L2
42445	float	A	Current 54.harmonic L3	HARM I54 L3
42447	float	A	Current 54.harmonic L4	HARM I54 L4
42449	float	A	Current 55.harmonic L1	HARM I55 L1
42451	float	A	Current 55.harmonic L2	HARM I55 L2
42453	float	A	Current 55.harmonic L3	HARM I55 L3
42455	float	A	Current 55.harmonic L4	HARM I55 L4
42457	float	A	Current 56.harmonic L1	HARM I56 L1
42459	float	A	Current 56.harmonic L2	HARM I56 L2
42461	float	A	Current 56.harmonic L3	HARM I56 L3
42463	float	A	Current 56.harmonic L4	HARM I56 L4
42465	float	A	Current 57.harmonic L1	HARM I57 L1
42467	float	A	Current 57.harmonic L2	HARM I57 L2
42469	float	A	Current 57.harmonic L3	HARM I57 L3
42471	float	A	Current 57.harmonic L4	HARM I57 L4
42473	float	A	Current 58.harmonic L1	HARM I58 L1
42475	float	A	Current 58.harmonic L2	HARM I58 L2
42477	float	A	Current 58.harmonic L3	HARM I58 L3
42479	float	A	Current 58.harmonic L4	HARM I58 L4
42481	float	A	Current 59.harmonic L1	HARM I59 L1
42483	float	A	Current 59.harmonic L2	HARM I59 L2
42485	float	A	Current 59.harmonic L3	HARM I59 L3
42487	float	A	Current 59.harmonic L4	HARM I59 L4
42489	float	A	Current 60.harmonic L1	HARM I60 L1
42491	float	A	Current 60.harmonic L2	HARM I60 L2
42493	float	A	Current 60.harmonic L3	HARM I60 L3
42495	float	A	Current 60.harmonic L4	HARM I60 L4
42497	float	A	Current 61.harmonic L1	HARM I61 L1
42499	float	A	Current 61.harmonic L2	HARM I61 L2
42501	float	A	Current 61.harmonic L3	HARM I61 L3
42503	float	A	Current 61.harmonic L4	HARM I61 L4
42505	float	A	Current 62.harmonic L1	HARM I62 L1
42507	float	A	Current 62.harmonic L2	HARM I62 L2
42509	float	A	Current 62.harmonic L3	HARM I62 L3
42511	float	A	Current 62.harmonic L4	HARM I62 L4
42513	float	A	Current 63.harmonic L1	HARM I63 L1
42515	float	A	Current 63.harmonic L2	HARM I63 L2
42517	float	A	Current 63.harmonic L3	HARM I63 L3
42519	float	A	Current 63.harmonic L4	HARM I63 L4
42521	float	A	Current 64.harmonic L1	HARM I64 L1
42523	float	A	Current 64.harmonic L2	HARM I64 L2
42525	float	A	Current 64.harmonic L3	HARM I64 L3
42527	float	A	Current 64.harmonic L4	HARM I64 L4





42933	float	A	Current 51.inter-harmonic L3	INTERHARM 151 L3
42935	float	A	Current 51.inter-harmonic L4	INTERHARM 151 L4
42937	float	A	Current 52.inter-harmonic L1	INTERHARM 152 L1
42939	float	A	Current 52.inter-harmonic L2	INTERHARM 152 L2
42941	float	A	Current 52.inter-harmonic L3	INTERHARM 152 L3
42943	float	A	Current 52.inter-harmonic L4	INTERHARM 152 L4
42945	float	A	Current 53.inter-harmonic L1	INTERHARM 153 L1
42947	float	A	Current 53.inter-harmonic L2	INTERHARM 153 L2
42949	float	A	Current 53.inter-harmonic L3	INTERHARM 153 L3
42951	float	A	Current 53.inter-harmonic L4	INTERHARM 153 L4
42953	float	A	Current 54.inter-harmonic L1	INTERHARM 154 L1
42955	float	A	Current 54.inter-harmonic L2	INTERHARM 154 L2
42957	float	A	Current 54.inter-harmonic L3	INTERHARM 154 L3
42959	float	A	Current 54.inter-harmonic L4	INTERHARM 154 L4
42961	float	A	Current 55.inter-harmonic L1	INTERHARM 155 L1
42963	float	A	Current 55.inter-harmonic L2	INTERHARM 155 L2
42965	float	A	Current 55.inter-harmonic L3	INTERHARM 155 L3
42967	float	A	Current 55.inter-harmonic L4	INTERHARM 155 L4
42969	float	A	Current 56.inter-harmonic L1	INTERHARM 156 L1
42971	float	A	Current 56.inter-harmonic L2	INTERHARM 156 L2
42973	float	A	Current 56.inter-harmonic L3	INTERHARM 156 L3
42975	float	A	Current 56.inter-harmonic L4	INTERHARM 156 L4
42977	float	A	Current 57.inter-harmonic L1	INTERHARM 157 L1
42979	float	A	Current 57.inter-harmonic L2	INTERHARM 157 L2
42981	float	A	Current 57.inter-harmonic L3	INTERHARM 157 L3
42983	float	A	Current 57.inter-harmonic L4	INTERHARM 157 L4
42985	float	A	Current 58.inter-harmonic L1	INTERHARM 158 L1
42987	float	A	Current 58.inter-harmonic L2	INTERHARM 158 L2
42989	float	A	Current 58.inter-harmonic L3	INTERHARM 158 L3
42991	float	A	Current 58.inter-harmonic L4	INTERHARM 158 L4
42993	float	A	Current 59.inter-harmonic L1	INTERHARM 159 L1
42995	float	A	Current 59.inter-harmonic L2	INTERHARM 159 L2
42997	float	A	Current 59.inter-harmonic L3	INTERHARM 159 L3
42999	float	A	Current 59.inter-harmonic L4	INTERHARM 159 L4
43001	float	A	Current 60.inter-harmonic L1	INTERHARM 160 L1
43003	float	A	Current 60.inter-harmonic L2	INTERHARM 160 L2
43005	float	A	Current 60.inter-harmonic L3	INTERHARM 160 L3
43007	float	A	Current 60.inter-harmonic L4	INTERHARM 160 L4
43009	float	A	Current 61.inter-harmonic L1	INTERHARM 161 L1
43011	float	A	Current 61.inter-harmonic L2	INTERHARM 161 L2
43013	float	A	Current 61.inter-harmonic L3	INTERHARM 161 L3
43015	float	A	Current 61.inter-harmonic L4	INTERHARM 161 L4
43017	float	A	Current 62.inter-harmonic L1	INTERHARM 162 L1
43019	float	A	Current 62.inter-harmonic L2	INTERHARM 162 L2
43021	float	A	Current 62.inter-harmonic L3	INTERHARM 162 L3
43023	float	A	Current 62.inter-harmonic L4	INTERHARM 162 L4
43025	float	A	Current 63.inter-harmonic L1	INTERHARM 163 L1
43027	float	A	Current 63.inter-harmonic L2	INTERHARM 163 L2
43029	float	A	Current 63.inter-harmonic L3	INTERHARM 163 L3
43031	float	A	Current 63.inter-harmonic L4	INTERHARM 163 L4
43033	float	A	Current 64.inter-harmonic L1	INTERHARM 164 L1
43035	float	A	Current 64.inter-harmonic L2	INTERHARM 164 L2
43037	float	A	Current 64.inter-harmonic L3	INTERHARM 164 L3
43039	float	A	Current 64.inter-harmonic L4	INTERHARM 164 L4

### THD I Group Harmonic Order

Address	Format	Unit	Remarks	Name
43041	float	A	Current 1.group harmonic L1	GROUP HARM 11 L1
43043	float	A	Current 1.group harmonic L2	GROUP HARM 11 L2
43045	float	A	Current 1.group harmonic L3	GROUP HARM 11 L3
43047	float	A	Current 1.group harmonic L4	GROUP HARM 11 L4
43049	float	A	Current 2.group harmonic L1	GROUP HARM 12 L1
43051	float	A	Current 2.group harmonic L2	GROUP HARM 12 L2
43053	float	A	Current 2.group harmonic L3	GROUP HARM 12 L3
43055	float	A	Current 2.group harmonic L4	GROUP HARM 12 L4
43057	float	A	Current 3.group harmonic L1	GROUP HARM 13 L1
43059	float	A	Current 3.group harmonic L2	GROUP HARM 13 L2
43061	float	A	Current 3.group harmonic L3	GROUP HARM 13 L3
43063	float	A	Current 3.group harmonic L4	GROUP HARM 13 L4
43065	float	A	Current 4.group harmonic L1	GROUP HARM 14 L1
43067	float	A	Current 4.group harmonic L2	GROUP HARM 14 L2
43069	float	A	Current 4.group harmonic L3	GROUP HARM 14 L3
43071	float	A	Current 4.group harmonic L4	GROUP HARM 14 L4
43073	float	A	Current 5.group harmonic L1	GROUP HARM 15 L1
43075	float	A	Current 5.group harmonic L2	GROUP HARM 15 L2
43077	float	A	Current 5.group harmonic L3	GROUP HARM 15 L3
43079	float	A	Current 5.group harmonic L4	GROUP HARM 15 L4
43081	float	A	Current 6.group harmonic L1	GROUP HARM 16 L1
43083	float	A	Current 6.group harmonic L2	GROUP HARM 16 L2
43085	float	A	Current 6.group harmonic L3	GROUP HARM 16 L3
43087	float	A	Current 6.group harmonic L4	GROUP HARM 16 L4
43089	float	A	Current 7.group harmonic L1	GROUP HARM 17 L1
43091	float	A	Current 7.group harmonic L2	GROUP HARM 17 L2
43093	float	A	Current 7.group harmonic L3	GROUP HARM 17 L3
43095	float	A	Current 7.group harmonic L4	GROUP HARM 17 L4
43097	float	A	Current 8.group harmonic L1	GROUP HARM 18 L1
43099	float	A	Current 8.group harmonic L2	GROUP HARM 18 L2
43101	float	A	Current 8.group harmonic L3	GROUP HARM 18 L3
43103	float	A	Current 8.group harmonic L4	GROUP HARM 18 L4
43105	float	A	Current 9.group harmonic L1	GROUP HARM 19 L1
43107	float	A	Current 9.group harmonic L2	GROUP HARM 19 L2
43109	float	A	Current 9.group harmonic L3	GROUP HARM 19 L3
43111	float	A	Current 9.group harmonic L4	GROUP HARM 19 L4
43113	float	A	Current 10.group harmonic L1	GROUP HARM 110 L1
43115	float	A	Current 10.group harmonic L2	GROUP HARM 110 L2
43117	float	A	Current 10.group harmonic L3	GROUP HARM 110 L3
43119	float	A	Current 10.group harmonic L4	GROUP HARM 110 L4
43121	float	A	Current 11.group harmonic L1	GROUP HARM 111 L1
43123	float	A	Current 11.group harmonic L2	GROUP HARM 111 L2
43125	float	A	Current 11.group harmonic L3	GROUP HARM 111 L3
43127	float	A	Current 11.group harmonic L4	GROUP HARM 111 L4







43541	float	A	Current 63.group harmonic L3	GROUP HARM 163 L3
43543	float	A	Current 63.group harmonic L4	GROUP HARM 163 L4
43545	float	A	Current 64.group harmonic L1	GROUP HARM 164 L1
43547	float	A	Current 64.group harmonic L2	GROUP HARM 164 L2
43549	float	A	Current 64.group harmonic L3	GROUP HARM 164 L3
43551	float	A	Current 64.group harmonic L4	GROUP HARM 164 L4

### Active Power Harmonic Order

Address	Format	Unit	Remarks	Name
43553	float	W	Active power 1.harmonic L1	HARM P1 L1
43555	float	W	Active power 1.harmonic L2	HARM P1 L2
43557	float	W	Active power 1.harmonic L3	HARM P1 L3
43559	float	W	Active power 1.harmonic L4	HARM P1 L4
43561	float	W	Active power 2.harmonic L1	HARM P2 L1
43563	float	W	Active power 2.harmonic L2	HARM P2 L2
43565	float	W	Active power 2.harmonic L3	HARM P2 L3
43567	float	W	Active power 2.harmonic L4	HARM P2 L4
43569	float	W	Active power 3.harmonic L1	HARM P3 L1
43571	float	W	Active power 3.harmonic L2	HARM P3 L2
43573	float	W	Active power 3.harmonic L3	HARM P3 L3
43575	float	W	Active power 3.harmonic L4	HARM P3 L4
43577	float	W	Active power 4.harmonic L1	HARM P4 L1
43579	float	W	Active power 4.harmonic L2	HARM P4 L2
43581	float	W	Active power 4.harmonic L3	HARM P4 L3
43583	float	W	Active power 4.harmonic L4	HARM P4 L4
43585	float	W	Active power 5.harmonic L1	HARM P5 L1
43587	float	W	Active power 5.harmonic L2	HARM P5 L2
43589	float	W	Active power 5.harmonic L3	HARM P5 L3
43591	float	W	Active power 5.harmonic L4	HARM P5 L4
43593	float	W	Active power 6.harmonic L1	HARM P6 L1
43595	float	W	Active power 6.harmonic L2	HARM P6 L2
43597	float	W	Active power 6.harmonic L3	HARM P6 L3
43599	float	W	Active power 6.harmonic L4	HARM P6 L4
43601	float	W	Active power 7.harmonic L1	HARM P7 L1
43603	float	W	Active power 7.harmonic L2	HARM P7 L2
43605	float	W	Active power 7.harmonic L3	HARM P7 L3
43607	float	W	Active power 7.harmonic L4	HARM P7 L4
43609	float	W	Active power 8.harmonic L1	HARM P8 L1
43611	float	W	Active power 8.harmonic L2	HARM P8 L2
43613	float	W	Active power 8.harmonic L3	HARM P8 L3
43615	float	W	Active power 8.harmonic L4	HARM P8 L4
43617	float	W	Active power 9.harmonic L1	HARM P9 L1
43619	float	W	Active power 9.harmonic L2	HARM P9 L2
43621	float	W	Active power 9.harmonic L3	HARM P9 L3
43623	float	W	Active power 9.harmonic L4	HARM P9 L4
43625	float	W	Active power 10.harmonic L1	HARM P10 L1
43627	float	W	Active power 10.harmonic L2	HARM P10 L2
43629	float	W	Active power 10.harmonic L3	HARM P10 L3
43631	float	W	Active power 10.harmonic L4	HARM P10 L4
43633	float	W	Active power 11.harmonic L1	HARM P11 L1
43635	float	W	Active power 11.harmonic L2	HARM P11 L2
43637	float	W	Active power 11.harmonic L3	HARM P11 L3
43639	float	W	Active power 11.harmonic L4	HARM P11 L4
43641	float	W	Active power 12.harmonic L1	HARM P12 L1
43643	float	W	Active power 12.harmonic L2	HARM P12 L2
43645	float	W	Active power 12.harmonic L3	HARM P12 L3
43647	float	W	Active power 12.harmonic L4	HARM P12 L4
43649	float	W	Active power 13.harmonic L1	HARM P13 L1
43651	float	W	Active power 13.harmonic L2	HARM P13 L2
43653	float	W	Active power 13.harmonic L3	HARM P13 L3
43655	float	W	Active power 13.harmonic L4	HARM P13 L4
43657	float	W	Active power 14.harmonic L1	HARM P14 L1
43659	float	W	Active power 14.harmonic L2	HARM P14 L2
43661	float	W	Active power 14.harmonic L3	HARM P14 L3
43663	float	W	Active power 14.harmonic L4	HARM P14 L4
43665	float	W	Active power 15.harmonic L1	HARM P15 L1
43667	float	W	Active power 15.harmonic L2	HARM P15 L2
43669	float	W	Active power 15.harmonic L3	HARM P15 L3
43671	float	W	Active power 15.harmonic L4	HARM P15 L4
43673	float	W	Active power 16.harmonic L1	HARM P16 L1
43675	float	W	Active power 16.harmonic L2	HARM P16 L2
43677	float	W	Active power 16.harmonic L3	HARM P16 L3
43679	float	W	Active power 16.harmonic L4	HARM P16 L4
43681	float	W	Active power 17.harmonic L1	HARM P17 L1
43683	float	W	Active power 17.harmonic L2	HARM P17 L2
43685	float	W	Active power 17.harmonic L3	HARM P17 L3
43687	float	W	Active power 17.harmonic L4	HARM P17 L4
43689	float	W	Active power 18.harmonic L1	HARM P18 L1
43691	float	W	Active power 18.harmonic L2	HARM P18 L2
43693	float	W	Active power 18.harmonic L3	HARM P18 L3
43695	float	W	Active power 18.harmonic L4	HARM P18 L4
43697	float	W	Active power 19.harmonic L1	HARM P19 L1
43699	float	W	Active power 19.harmonic L2	HARM P19 L2
43701	float	W	Active power 19.harmonic L3	HARM P19 L3
43703	float	W	Active power 19.harmonic L4	HARM P19 L4
43705	float	W	Active power 20.harmonic L1	HARM P20 L1
43707	float	W	Active power 20.harmonic L2	HARM P20 L2
43709	float	W	Active power 20.harmonic L3	HARM P20 L3
43711	float	W	Active power 20.harmonic L4	HARM P20 L4
43713	float	W	Active power 21.harmonic L1	HARM P21 L1
43715	float	W	Active power 21.harmonic L2	HARM P21 L2
43717	float	W	Active power 21.harmonic L3	HARM P21 L3
43719	float	W	Active power 21.harmonic L4	HARM P21 L4
43721	float	W	Active power 22.harmonic L1	HARM P22 L1
43723	float	W	Active power 22.harmonic L2	HARM P22 L2
43725	float	W	Active power 22.harmonic L3	HARM P22 L3
43727	float	W	Active power 22.harmonic L4	HARM P22 L4
43729	float	W	Active power 23.harmonic L1	HARM P23 L1
43731	float	W	Active power 23.harmonic L2	HARM P23 L2
43733	float	W	Active power 23.harmonic L3	HARM P23 L3
43735	float	W	Active power 23.harmonic L4	HARM P23 L4



43943	float	W	Active power 49.harmonic L4	HARM P49 L4
43945	float	W	Active power 50.harmonic L1	HARM P50 L1
43947	float	W	Active power 50.harmonic L2	HARM P50 L2
43949	float	W	Active power 50.harmonic L3	HARM P50 L3
43951	float	W	Active power 50.harmonic L4	HARM P50 L4
43953	float	W	Active power 51.harmonic L1	HARM P51 L1
43955	float	W	Active power 51.harmonic L2	HARM P51 L2
43957	float	W	Active power 51.harmonic L3	HARM P51 L3
43959	float	W	Active power 51.harmonic L4	HARM P51 L4
43961	float	W	Active power 52.harmonic L1	HARM P52 L1
43963	float	W	Active power 52.harmonic L2	HARM P52 L2
43965	float	W	Active power 52.harmonic L3	HARM P52 L3
43967	float	W	Active power 52.harmonic L4	HARM P52 L4
43969	float	W	Active power 53.harmonic L1	HARM P53 L1
43971	float	W	Active power 53.harmonic L2	HARM P53 L2
43973	float	W	Active power 53.harmonic L3	HARM P53 L3
43975	float	W	Active power 53.harmonic L4	HARM P53 L4
43977	float	W	Active power 54.harmonic L1	HARM P54 L1
43979	float	W	Active power 54.harmonic L2	HARM P54 L2
43981	float	W	Active power 54.harmonic L3	HARM P54 L3
43983	float	W	Active power 54.harmonic L4	HARM P54 L4
43985	float	W	Active power 55.harmonic L1	HARM P55 L1
43987	float	W	Active power 55.harmonic L2	HARM P55 L2
43989	float	W	Active power 55.harmonic L3	HARM P55 L3
43991	float	W	Active power 55.harmonic L4	HARM P55 L4
43993	float	W	Active power 56.harmonic L1	HARM P56 L1
43995	float	W	Active power 56.harmonic L2	HARM P56 L2
43997	float	W	Active power 56.harmonic L3	HARM P56 L3
43999	float	W	Active power 56.harmonic L4	HARM P56 L4
44001	float	W	Active power 57.harmonic L1	HARM P57 L1
44003	float	W	Active power 57.harmonic L2	HARM P57 L2
44005	float	W	Active power 57.harmonic L3	HARM P57 L3
44007	float	W	Active power 57.harmonic L4	HARM P57 L4
44009	float	W	Active power 58.harmonic L1	HARM P58 L1
44011	float	W	Active power 58.harmonic L2	HARM P58 L2
44013	float	W	Active power 58.harmonic L3	HARM P58 L3
44015	float	W	Active power 58.harmonic L4	HARM P58 L4
44017	float	W	Active power 59.harmonic L1	HARM P59 L1
44019	float	W	Active power 59.harmonic L2	HARM P59 L2
44021	float	W	Active power 59.harmonic L3	HARM P59 L3
44023	float	W	Active power 59.harmonic L4	HARM P59 L4
44025	float	W	Active power 60.harmonic L1	HARM P60 L1
44027	float	W	Active power 60.harmonic L2	HARM P60 L2
44029	float	W	Active power 60.harmonic L3	HARM P60 L3
44031	float	W	Active power 60.harmonic L4	HARM P60 L4
44033	float	W	Active power 61.harmonic L1	HARM P61 L1
44035	float	W	Active power 61.harmonic L2	HARM P61 L2
44037	float	W	Active power 61.harmonic L3	HARM P61 L3
44039	float	W	Active power 61.harmonic L4	HARM P61 L4
44041	float	W	Active power 62.harmonic L1	HARM P62 L1
44043	float	W	Active power 62.harmonic L2	HARM P62 L2
44045	float	W	Active power 62.harmonic L3	HARM P62 L3
44047	float	W	Active power 62.harmonic L4	HARM P62 L4
44049	float	W	Active power 63.harmonic L1	HARM P63 L1
44051	float	W	Active power 63.harmonic L2	HARM P63 L2
44053	float	W	Active power 63.harmonic L3	HARM P63 L3
44055	float	W	Active power 63.harmonic L4	HARM P63 L4
44057	float	W	Active power 64.harmonic L1	HARM P64 L1
44059	float	W	Active power 64.harmonic L2	HARM P64 L2
44061	float	W	Active power 64.harmonic L3	HARM P64 L3
44063	float	W	Active power 64.harmonic L4	HARM P64 L4

### Reactive Power Harmonic Order

Address	Format	Unit	Remarks	Name
44065	float	var	Reactive power 1.harmonic L1	HARM Q1 L1
44067	float	var	Reactive power 1.harmonic L2	HARM Q1 L2
44069	float	var	Reactive power 1.harmonic L3	HARM Q1 L3
44071	float	var	Reactive power 1.harmonic L4	HARM Q1 L4
44073	float	var	Reactive power 2.harmonic L1	HARM Q2 L1
44075	float	var	Reactive power 2.harmonic L2	HARM Q2 L2
44077	float	var	Reactive power 2.harmonic L3	HARM Q2 L3
44079	float	var	Reactive power 2.harmonic L4	HARM Q2 L4
44081	float	var	Reactive power 3.harmonic L1	HARM Q3 L1
44083	float	var	Reactive power 3.harmonic L2	HARM Q3 L2
44085	float	var	Reactive power 3.harmonic L3	HARM Q3 L3
44087	float	var	Reactive power 3.harmonic L4	HARM Q3 L4
44089	float	var	Reactive power 4.harmonic L1	HARM Q4 L1
44091	float	var	Reactive power 4.harmonic L2	HARM Q4 L2
44093	float	var	Reactive power 4.harmonic L3	HARM Q4 L3
44095	float	var	Reactive power 4.harmonic L4	HARM Q4 L4
44097	float	var	Reactive power 5.harmonic L1	HARM Q5 L1
44099	float	var	Reactive power 5.harmonic L2	HARM Q5 L2
44101	float	var	Reactive power 5.harmonic L3	HARM Q5 L3
44103	float	var	Reactive power 5.harmonic L4	HARM Q5 L4
44105	float	var	Reactive power 6.harmonic L1	HARM Q6 L1
44107	float	var	Reactive power 6.harmonic L2	HARM Q6 L2
44109	float	var	Reactive power 6.harmonic L3	HARM Q6 L3
44111	float	var	Reactive power 6.harmonic L4	HARM Q6 L4
44113	float	var	Reactive power 7.harmonic L1	HARM Q7 L1
44115	float	var	Reactive power 7.harmonic L2	HARM Q7 L2
44117	float	var	Reactive power 7.harmonic L3	HARM Q7 L3
44119	float	var	Reactive power 7.harmonic L4	HARM Q7 L4
44121	float	var	Reactive power 8.harmonic L1	HARM Q8 L1
44123	float	var	Reactive power 8.harmonic L2	HARM Q8 L2
44125	float	var	Reactive power 8.harmonic L3	HARM Q8 L3
44127	float	var	Reactive power 8.harmonic L4	HARM Q8 L4
44129	float	var	Reactive power 9.harmonic L1	HARM Q9 L1
44131	float	var	Reactive power 9.harmonic L2	HARM Q9 L2
44133	float	var	Reactive power 9.harmonic L3	HARM Q9 L3
44135	float	var	Reactive power 9.harmonic L4	HARM Q9 L4
44137	float	var	Reactive power 10.harmonic L1	HARM Q10 L1





44551	float	var	Reactive power 61.harmonic L4	HARM Q61 L4
44553	float	var	Reactive power 62.harmonic L1	HARM Q62 L1
44555	float	var	Reactive power 62.harmonic L2	HARM Q62 L2
44557	float	var	Reactive power 62.harmonic L3	HARM Q62 L3
44559	float	var	Reactive power 62.harmonic L4	HARM Q62 L4
44561	float	var	Reactive power 63.harmonic L1	HARM Q63 L1
44563	float	var	Reactive power 63.harmonic L2	HARM Q63 L2
44565	float	var	Reactive power 63.harmonic L3	HARM Q63 L3
44567	float	var	Reactive power 63.harmonic L4	HARM Q63 L4
44569	float	var	Reactive power 64.harmonic L1	HARM Q64 L1
44571	float	var	Reactive power 64.harmonic L2	HARM Q64 L2
44573	float	var	Reactive power 64.harmonic L3	HARM Q64 L3
44575	float	var	Reactive power 64.harmonic L4	HARM Q64 L4

## 16 (0x10) – Write Multiple Registers

Erase Values				
Address	Format	Unit	Remarks	Name
35000	unsigned long	1 – erase	Erase energy	
35002	unsigned long	1 – erase	Erase MotoHours	