address (HEX)	project	describe	Data Format	Data length	illustrate
0000	MM	programming password	BCD	2	2 Byte 1 ~ 9999
0001	DZ	Instrument address	char	1	1 byte, 1 ~ 254
	TXK	communication control	char	1	See bit address
0002	XS1	Power Display Selection	char	1	reserve
	SRS	Wiring mode selection	char	1	See bit address
0003	PT	Voltage multiplier	uInt16	2	PT= Voltage 1 Second test /2 Subtest (1
0004	CT	Current rate	uInt16	2	CT= Current 1 Second test /2 times test (1
0005		DO1 alarm parameters	uInt16	2	Parameter description see appendix 1
0006		DO1 alarm type	char	1	
0007		DO2 alarm parameters	uInt16	2	
		DO2 alarm type	char	1	
0008		DO3 alarm parameters	uInt16	2	
0009		DO3 alarm type	char	1	
000A		DO4 alarm parameters	uInt16	2	
		DO4 alarm type	char	1	
000B		AO1 alarm parameters	uInt16	2	Parameter description see appendix 2
000C		AO1 alarm type	char	1	
000D		AO2 alarm parameters	uInt16	2	
		AO2 alarm type	char	1	
000E		AO3 alarm parameters	uInt16	2	
000F		AO3 alarm type	char	1	
0010		AO4 alarm parameters	uInt16	2	
		AO4 alarm type	char	1	
0011-0020		reserve		32	
0021	DIO/Info	switch information	char	1	Switch output status
			char	1	Switch input status byte
0022		reserve		2	
0023	DPT	Voltage decimal point	char	1	the description of voltage, current and power
	DCT	Current decimal point	char	1	
0024	DPQ	Power decimal point	char	1	
	SIGN	power sign bit	char	1	
0025	Ua	A phase voltage	uInt16	2	
0026	Ub	B phase voltage	uInt16	2	

0027	Uc	C phase voltage	uInt16	2	Data calculation: Voltage U=(Rx/10000) * (10^DPT) Current I=(Rx / 10000) *(10^DCT) Power P=(Rx / 10000) *(10^DPQ) Power factor PF=Rx/1000Frequency F=Rx/100 Rx is the data in the corresponding register . The 0-7 bits of SIGN represent Pa, Pb, Pc, Ps, Qa, Qb, Qc, Qs respectivelyThe sign of , 1 is negative and 0 is positive. Frequency=Rx/1000.0
0028	Uab	AB line voltage	uInt16	2	
0029	Ubc	BC line voltage	uInt16	2	
002A	Uca	CA line voltage	uInt16	2	
002B	Ia	A phase current	uInt16	2	
002C	Ib	B -phase current	uInt16	2	
002D	IC	C -phase current	uInt16	2	
002E	Pa	A Phase active power	uInt16	2	
002F	Pb	B -phase active power	uInt16	2	
0030	PC	C -phase active power	uInt16	2	
0031	PS	total active power	uInt16	2	
0032	Q	A Phase reactive power	uInt16	2	
0033	Qb	B reactive power	uInt16	2	
0034	Qc	C -phase reactive power	uInt16	2	
0035	Qs	total reactive power	uInt16	2	
0036	PFa	A Phase power factor	Int16	2	
0037	PFb	B phase power factor	Int16	2	
0038	PFc	C phase power factor	Int16	2	
0039	PFs	total power factor	Int16	2	
003A	Sa	A phase apparent power	uInt16	2	
003B	Sb	B apparent power	uInt16	2	
003C	sc	C apparent power	uInt16	2	
003D	Ss	total apparent power	uInt16	2	
003E	f	frequency	uInt16	2	
003F-0040	WPP	Forward active energy	ulong	4	003F is the high byte, other similar ,4 byte representation Secondary side electric energy parameters , electric energy data high byte before low byte, 4Byte integer, unit Wh
0041-0042	WPN	Reverse Active Energy	ulong	4	
0043-0044	WQP	Forward reactive energy	ulong	4	
0045-0046	wxya	reverse reactive energy	ulong	4	
0047-0048	EPP	Forward active energy	float	4	Primary side power parameters , using IEEE754 floating-point data format, 4Byte length, unit Wh (varh), high byte first
0049-004A	EPN	Reverse Active Energy	float	4	
004B-004C	EQP	Forward reactive energy	float	4	
004D-004E	EQN	Total Reverse Reactive Energy	float	4	
004F-0050	UA	A phase voltage	float	4	
0051-0052	UB	B phase voltage	float	4	
0053-0054	UC	C phase voltage	float	4	
0055-0056	UAB	AB line voltage	float	4	
0057-0058	UBC	BC line voltage	float	4	
0059-005A	UCA	CA line voltage	float	4	
005B-005C	IA	A phase current	float	4	

005D-005E	IB	B -phase current	float	4	
005F-0060	IC	C -phase current	float	4	
0061-0062	PA	A Phase active power	float	4	Primary side voltage parameters, using IEEE754 floating point data format,4 bytes in length, high bit first.
0063-0064	PB	B -phase active power	float	4	
0065-0066	PC	C -phase active power	float	4	Voltage unit V, Current unit A, Active power unit Wh, Reactive power unit varh, Apparent power unit VA
0067-0068	P.S.	total active power	float	4	
0069-006A	QA	A Phase reactive power	float	4	
006B-006C	QB	B reactive power	float	4	
006D-006E	QC	C -phase reactive power	float	4	
006F-0070	QS	total reactive power	float	4	
0071-0072	PFA	A Phase power factor	float	4	
0073-0074	PFB	B phase power factor	float	4	
0075-0076	PFC	C phase power factor	float	4	
0077-0078	PFS	total power factor	float	4	
0079-007A	SA	A phase apparent power	float	4	
007B-007C	SB	B apparent power	float	4	
007D-008E	SC	C apparent power	float	4	
007F-0080	SS	total apparent power	float	4	
0081--008F			reserve	30	
0090		active power maximum demand	uInt16	2	
0091		Maximum reactive power demand	uInt16	2	
0092		Voltage maximum demand	uInt16	2	Secondary side voltage demand unit 0.1V
0093		Maximum current demand	uInt16	2	Secondary side voltage demand unit 0.001A
0094			reserve	2	
0095			reserve	2	
0096			reserve	2	
0097			reserve	2	
0098		Current Active Power Demand	uInt16	2	
0099		Current reactive power demand	uInt16	2	
009A		current voltage demand	uInt16	2	
009B		current current demand	uInt16	2	
009C-00FF			reserve	200	
0100		1st time slot table 1st day time slot	hh: mm	2	
0101		1st time slot table 1st day slot rate	uInt16	2	

0102		1st time slot table 2nd day time slot	hh: mm	2	The time of the day time period is in BCD code format. For example: 15:30 means 15:30. The value range of the daily time period rate is 1-4, Corresponding to the four rates of peak and flat valley respectively .
0103		1st time slot table 2nd day time slot rate	uInt16	2	
0104		1st time slot table 3rd day time slot	hh: mm	2	
0105		1st time slot table 3rd day time slot rate	uInt16	2	
0106		1st time slot table 4th day time slot	hh: mm	2	
0107		1st time slot table 4th day time slot rate	uInt16	2	
0108		1st time slot table 5th day time slot	hh: mm	2	
0109		Rates for the 1st time slot table and the 5th day time slot	uInt16	2	
010A		1st time slot table 6th day time slot	hh: mm	2	
010B		1st time slot table 6th day time slot rate	uInt16	2	
010C		1st time slot table 7th day time slot	hh: mm	2	
010D		Rates for the 1st time slot and the 7th day time slot	uInt16	2	
010E		1st time slot table 8th day time slot	hh: mm	2	
010F		1st time slot table 8th day time slot rate	uInt16	2	
0110		2nd time slot table 1st day slot time	hh: mm	2	The time of the day time period is in BCD code format. For example: 15:30 means 15:30. The value range of the daily time period rate is 1-4, Corresponding to the four rates of peak and flat valley respectively .
0111		2nd time slot table 1st day slot rate	uInt16	2	
0112		2nd time slot table 2nd day slot time	hh: mm	2	
0113		2nd time slot table 2nd day slot rate	uInt16	2	
0114		2nd time slot table 3rd day time slot	hh: mm	2	
0115		2nd time slot table 3rd day slot rate	uInt16	2	
0116		2nd time slot table 4th day time slot	hh: mm	2	
0117		2nd time slot table 4th day slot rate	uInt16	2	
0118		2nd time slot table 5th day time slot	hh: mm	2	
0119		Rates for the 5th day of the 2nd time slot table	uInt16	2	
011A		2nd time slot table 6th day time slot	hh: mm	2	
011B		Rates for the 6th day of	uInt16	2	

		the 2nd time slot table			
011C		2nd time slot table 7th day time slot	hh: mm	2	
011D		Rates for the 7th day of the 2nd time slot table	uInt16	2	
011E		Time of the 8th day of the 2nd time slot table	hh: mm	2	
011F		Rates for the 8th day of the 2nd time slot table	uInt16	2	
0120		3rd time slot table 1st day time slot	hh: mm	2	The time of the day time period is in BCD code format. For example: 15:30 means 15:30. The value range of the daily time period rate is 1-4, Corresponding to the four rates of peak and flat valley respectively .
0121		3rd time slot table 1st day slot rate	uInt16	2	
0122		3rd time slot table 2nd day time slot	hh: mm	2	
0123		3rd time slot table 2nd day slot rate	uInt16	2	
0124		3rd time slot table 3rd day time slot	hh: mm	2	
0125		3rd time slot table 3rd day slot rate	uInt16	2	
0126		3rd time slot table 4th day time slot	hh: mm	2	
0127		3rd time slot table 4th day slot rate	uInt16	2	
0128		3rd time slot table 5th day time slot	hh: mm	2	
0129		Rates for the 5th day of the 3rd time slot table	uInt16	2	
012A		3rd time slot table 6th day time slot	hh: mm	2	
012B		Rates for the 6th day of the 3rd time slot table	uInt16	2	
012C		3rd time slot table 7th day time slot	hh: mm	2	
012D		Rates for the 7th day of the 3rd time slot table	uInt16	2	
012E		3rd time slot table 8th day time slot	hh: mm	2	
012F		Rates for the 8th day of the 3rd time slot table	uInt16	2	
0130		4th time slot table 1st day time slot	hh: mm	2	The time of the day time period is in BCD code format. For
0131		4th time slot table 1st day slot rate	uInt16	2	
0132		4th time slot table 2nd day time slot	hh: mm	2	
0133		4th time slot table 2nd day slot rate	uInt16	2	
0134		4th time slot table 3rd day time slot	hh: mm	2	

0135		4th time slot table 3rd day slot rate	uInt16	2	example: 15:30 means 15:30. The value range of the daily time period rate is 1-
0136		4th time slot table 4th day time slot	hh: mm	2	
0137		4th time slot table 4th day slot rate	uInt16	2	
0138		4th time slot table 5th day time slot	hh: mm	2	4, Corresponding to the four rates of peak and flat valley respectively .
0139		Rates for the 4th time slot and the 5th day slot	uInt16	2	
013A		4th time slot table 6th day time slot	hh: mm	2	
013B		4th time slot table 6th day time slot rate	uInt16	2	
013C		4th time slot table 7th day time slot	hh: mm	2	
013D		4th time slot table 7th day time slot rate	uInt16	2	
013E		4th time slot table 8th day time slot	hh: mm	2	
013F		Rates for the 8th day of the 4th time slot table	uInt16	2	
0140		1st public holiday		2	
0141		2nd public holiday		2	
0142		3rd public holiday		2	
0143		4th public holiday		2	
0144		5th public holiday		2	
0145		6th public holiday		2	
0146		7th public holiday		2	
0147		8th public holiday		2	
0148		9th Public Holiday		2	
0149		10th public holiday		2	
014A		11th public holiday		2	
014B		12th public holiday		2	
014C		13th public holiday		2	
014D		14th public holiday		2	
014E		15th public holiday		2	
014F		reserve		2	
0150--0165		reserve		44	
0166		current date year month	yy:MM	2	Date time as BCD code
0167		current date year day week	dd:mm	2	
0168			00	1	
		current time	hh	1	
0169		Current time minutes and	mm:ss	2	

		seconds			
016A		Automatic meter reading day	dd:hh	2	
016B--017F		reserve		42	
0180		A-phase voltage harmonic DC component	uInt16	2	Harmonic content %=Rx/10000
0181		Total harmonics of phase A voltage	uInt16	2	
0182		Phase A voltage 2nd harmonic	uInt16	2	
0183		Phase A voltage 3rd harmonic	uInt16	2	
0184		Phase A voltage 4th harmonic	uInt16	2	
0185		Phase A voltage 5th harmonic	uInt16	2	
0186		Phase A voltage 6th harmonic	uInt16	2	
0187		Phase A voltage 7th harmonic	uInt16	2	
0188		Phase A voltage 8th harmonic	uInt16	2	
0189		Phase A voltage 9th harmonic	uInt16	2	
018A		Phase A voltage 10th harmonic	uInt16	2	
018B		Phase A voltage 11th harmonic	uInt16	2	
018C		Phase A voltage 12th harmonic	uInt16	2	
018D		Phase A voltage 13th harmonic	uInt16	2	
018E		Phase A voltage 14th harmonic	uInt16	2	
018F		A phase voltage 15th harmonic	uInt16	2	
0190		Phase A voltage 16th harmonic	uInt16	2	Harmonic content %=Rx/10000
0191		A phase voltage 17th harmonic	uInt16	2	
0192		A phase voltage 18th harmonic	uInt16	2	
0193		Phase A voltage 19th harmonic	uInt16	2	
0194		Phase A voltage 20th harmonic	uInt16	2	
0195		Phase A voltage 21st harmonic	uInt16	2	
0196		Phase A voltage 22nd harmonic	uInt16	2	
0197		Phase A voltage 23rd	uInt16	2	

		harmonic			
0198		Phase A voltage 24th harmonic	uInt16	2	
0199		Phase A voltage 25th harmonic	uInt16	2	
019A		Phase A voltage 26th harmonic	uInt16	2	
019B		Phase A voltage 27th harmonic	uInt16	2	
019C		Phase A voltage 28th harmonic	uInt16	2	
019D		Phase A voltage 29th harmonic	uInt16	2	
019E		A phase voltage 30th harmonic	uInt16	2	
019F		Phase A voltage 31st harmonic	uInt16	2	
01A0		A phase current harmonic DC component	uInt16	2	
01A1		Total harmonics of phase A current	uInt16	2	
01A2		Phase A current 2nd harmonic	uInt16	2	
01A3		Phase A current 3rd harmonic	uInt16	2	
01A4		Phase A current 4th harmonic	uInt16	2	
01A5		Phase A current 5th harmonic	uInt16	2	Harmonic content %=Rx/10000
01A6		Phase A current 6th harmonic	uInt16	2	
01A7		Phase A current 7th harmonic	uInt16	2	
01A8		A phase current 8th harmonic	uInt16	2	
01A9		Phase A current 9th harmonic	uInt16	2	
01AA		Phase A current 10th harmonic	uInt16	2	
01AB		Phase A current 11th harmonic	uInt16	2	
01AC		Phase A current 12th harmonic	uInt16	2	
01AD		Phase A current 13th harmonic	uInt16	2	
01AE		A phase current 14th harmonic	uInt16	2	
01AF		A phase current 15th harmonic	uInt16	2	
01B0		Phase A current 16th harmonic	uInt16	2	

01B1		Phase A current 17th harmonic	uInt16	2	
01B2		18th harmonic of phase A current	uInt16	2	
01B3		Phase A current 19th harmonic	uInt16	2	
01B4		Phase A current 20th harmonic	uInt16	2	
01B5		Phase A current 21st harmonic	uInt16	2	
01B6		Phase A current 22nd harmonic	uInt16	2	Harmonic content %=Rx/10000
01B7		Phase A current 23rd harmonic	uInt16	2	
01B8		A phase current 24th harmonic	uInt16	2	
01B9		Phase A current 25th harmonic	uInt16	2	
01BA		Phase A current 26th harmonic	uInt16	2	
01BB		Phase A current 27th harmonic	uInt16	2	
01BC		A phase current 28th harmonic	uInt16	2	
01BD		Phase A current 29th harmonic	uInt16	2	
01BE		A phase current 30th harmonic	uInt16	2	
01BF		Phase A current 31st harmonic	uInt16	2	
01C0		B-phase voltage harmonic DC component	uInt16	2	
01C1		Total harmonics of phase B voltage	uInt16	2	
01C2		Phase B voltage 2nd harmonic	uInt16	2	
01C3		Phase B voltage 3rd harmonic	uInt16	2	
01C4		Phase B voltage 4th harmonic	uInt16	2	
01C5		Phase B voltage 5th harmonic	uInt16	2	Harmonic content %=Rx/10000
01C6		Phase B voltage 6th harmonic	uInt16	2	
01C7		Phase B voltage 7th harmonic	uInt16	2	
01C8		B-phase voltage 8th harmonic	uInt16	2	
01C9		Phase B voltage 9th harmonic	uInt16	2	
01CA		B-phase voltage 10th harmonic	uInt16	2	
01CB		Phase B voltage 11th	uInt16	2	

		harmonic			
01CC		Phase B voltage 12th harmonic	uInt16	2	
01CD		Phase B voltage 13th harmonic	uInt16	2	
01CE		Phase B voltage 14th harmonic	uInt16	2	
01CF		B-phase voltage 15th harmonic	uInt16	2	
01D0		Phase B voltage 16th harmonic	uInt16	2	Harmonic content %=Rx/10000
01D1		B-phase voltage 17th harmonic	uInt16	2	
01D2		B-phase voltage 18th harmonic	uInt16	2	
01D3		B-phase voltage 19th harmonic	uInt16	2	
01D4		Phase B voltage 20th harmonic	uInt16	2	
01D5		Phase B voltage 21st harmonic	uInt16	2	
01D6		Phase B voltage 22nd harmonic	uInt16	2	
01D7		Phase B voltage 23rd harmonic	uInt16	2	
01D8		Phase B voltage 24th harmonic	uInt16	2	
01D9		Phase B voltage 25th harmonic	uInt16	2	
01DA		Phase B voltage 26th harmonic	uInt16	2	
01DB		Phase B voltage 27th harmonic	uInt16	2	
01DC		Phase B voltage 28th harmonic	uInt16	2	
01DD		Phase B voltage 29th harmonic	uInt16	2	
01DE		B-phase voltage 30th harmonic	uInt16	2	
01DF		B-phase voltage 31st harmonic	uInt16	2	
01E0		B-phase current harmonic DC component	uInt16	2	
01E1		B-phase current total harmonics	uInt16	2	
01E2		Phase B current 2nd harmonic	uInt16	2	
01E3		Phase B current 3rd harmonic	uInt16	2	
01E4		Phase B current 4th harmonic	uInt16	2	

01E5		Phase B current 5th harmonic	uInt16	2	Harmonic content %=Rx/10000
01E6		Phase B current 6th harmonic	uInt16	2	
01E7		Phase B current 7th harmonic	uInt16	2	
01E8		B-phase current 8th harmonic	uInt16	2	
01E9		B-phase current 9th harmonic	uInt16	2	
01EA		B-phase current 10th harmonic	uInt16	2	
01EB		B-phase current 11th harmonic	uInt16	2	
01EC		Phase B current 12th harmonic	uInt16	2	
01ED		B-phase current 13th harmonic	uInt16	2	
01EE		B-phase current 14th harmonic	uInt16	2	
01EF		B-phase current 15th harmonic	uInt16	2	
01F0		B-phase current 16th harmonic	uInt16	2	Harmonic content %=Rx/10000
01F1		B-phase current 17th harmonic	uInt16	2	
01F2		B-phase current 18th harmonic	uInt16	2	
01F3		B-phase current 19th harmonic	uInt16	2	
01F4		B-phase current 20th harmonic	uInt16	2	
01F5		B-phase current 21st harmonic	uInt16	2	
01F6		B-phase current 22nd harmonic	uInt16	2	
01F7		B-phase current 23rd harmonic	uInt16	2	
01F8		B-phase current 24th harmonic	uInt16	2	
01F9		B-phase current 25th harmonic	uInt16	2	
01FA		B-phase current 26th harmonic	uInt16	2	
01FB		B-phase current 27th harmonic	uInt16	2	
01FC		B-phase current 28th harmonic	uInt16	2	
01FD		B-phase current 29th harmonic	uInt16	2	
01FE		B-phase current 30th harmonic	uInt16	2	
01FF		B-phase current 31st	uInt16	2	

		harmonic			
0200		C phase voltage harmonic DC component	uInt16	2	Harmonic content %=Rx/10000
0201		Total harmonics of phase C voltage	uInt16	2	
0202		Phase C voltage 2nd harmonic	uInt16	2	
0203		Phase C voltage 3rd harmonic	uInt16	2	
0204		Phase C voltage 4th harmonic	uInt16	2	
0205		Phase C voltage 5th harmonic	uInt16	2	
0206		Phase C voltage 6th harmonic	uInt16	2	
0207		Phase C voltage 7th harmonic	uInt16	2	
0208		Phase C voltage 8th harmonic	uInt16	2	
0209		Phase C voltage 9th harmonic	uInt16	2	
020A		C-phase voltage 10th harmonic	uInt16	2	
020B		Phase C voltage 11th harmonic	uInt16	2	
020C		Phase C voltage 12th harmonic	uInt16	2	
020D		Phase C voltage 13th harmonic	uInt16	2	
020E		Phase C voltage 14th harmonic	uInt16	2	
020F		C-phase voltage 15th harmonic	uInt16	2	
0210		Phase C voltage 16th harmonic	uInt16	2	Harmonic content %=Rx/10000
0211		Phase C voltage 17th harmonic	uInt16	2	
0212		C-phase voltage 18th harmonic	uInt16	2	
0213		Phase C voltage 19th harmonic	uInt16	2	
0214		Phase C voltage 20th harmonic	uInt16	2	
0215		Phase C voltage 21st harmonic	uInt16	2	
0216		Phase C voltage 22nd harmonic	uInt16	2	
0217		Phase C voltage 23rd harmonic	uInt16	2	
0218		Phase C voltage 24th harmonic	uInt16	2	

0219		Phase C voltage 25th harmonic	uInt16	2	
021A		Phase C voltage 26th harmonic	uInt16	2	
021B		Phase C voltage 27th harmonic	uInt16	2	
021C		Phase C voltage 28th harmonic	uInt16	2	
021D		Phase C voltage 29th harmonic	uInt16	2	
021E		C phase voltage 30th harmonic	uInt16	2	
021F		Phase C voltage 31st harmonic	uInt16	2	
0220		C-phase current harmonic DC component	uInt16	2	
0221		Total harmonics of phase C current	uInt16	2	
0222		Phase C current 2nd harmonic	uInt16	2	
0223		Phase C current 3rd harmonic	uInt16	2	
0224		Phase C current 4th harmonic	uInt16	2	Harmonic content %=Rx/10000
0225		Phase C current 5th harmonic	uInt16	2	
0226		Phase C current 6th harmonic	uInt16	2	
0227		Phase C current 7th harmonic	uInt16	2	
0228		Phase C current 8th harmonic	uInt16	2	
0229		Phase C current 9th harmonic	uInt16	2	
022A		Phase C current 10th harmonic	uInt16	2	
022B		Phase C current 11th harmonic	uInt16	2	
022C		Phase C current 12th harmonic	uInt16	2	
022D		Phase C current 13th harmonic	uInt16	2	
022E		Phase C current 14th harmonic	uInt16	2	
022F		C-phase current 15th harmonic	uInt16	2	
0230		Phase C current 16th harmonic	uInt16	2	
0231		C phase current 17th harmonic	uInt16	2	

0232		C相电流18次谐波	uInt16	2	谐波含量%=Rx/10000
0233		C相电流19次谐波	uInt16	2	
0234		C相电流20次谐波	uInt16	2	
0235		C相电流21次谐波	uInt16	2	
0236		C相电流22次谐波	uInt16	2	
0237		C相电流23次谐波	uInt16	2	
0238		C相电流24次谐波	uInt16	2	
0239		C相电流25次谐波	uInt16	2	
023A		C相电流26次谐波	uInt16	2	
023B		C相电流27次谐波	uInt16	2	
023C		C相电流28次谐波	uInt16	2	
023D		C相电流29次谐波	uInt16	2	
023E		C相电流30次谐波	uInt16	2	
023F		C相电流31次谐波	uInt16	2	
0240-0241		正向有功总电能	ulong	4	二次侧电能参数,ulong数据格式，4字节长度，单位Wh（varh），高字节在前
0242-0243		正向有功费率1电能	ulong	4	
0244-0245		正向有功费率2电能	ulong	4	
0246-0247		正向有功费率3电能	ulong	4	
0248-0249		正向有功费率4电能	ulong	4	
024A-024B		反向有功总电能	ulong	4	
024C-024D		反向有功费率1电能	ulong	4	
024E-024F		反向有功费率2电能	ulong	4	
0250-0251		反向有功费率3电能	ulong	4	
0252-0253		反向有功费率4电能	ulong	4	
0254-0255		正向无功总电能	ulong	4	二次侧电能参数,ulong数据格式，4字节长度，单位Wh（varh），高字节在前
0256-0257		正向无功费率1电能	ulong	4	
0258-0259		正向无功费率2电能	ulong	4	
025A-025B		正向无功费率3电能	ulong	4	
025C-025D		正向无功费率4电能	ulong	4	
025E-025F		反向无功总电能	ulong	4	
0260-0261		反向无功费率1电能	ulong	4	
0262-0263		反向无功费率2电能	ulong	4	
0264-0265		反向无功费率3电能	ulong	4	
0266-0267		反向无功费率4电能	ulong	4	
0268-0269		1象限总无功电能	ulong	4	
026A-026B		1象限费率1无功电能	ulong	4	
026C-026D		1象限费率2无功电能	ulong	4	
026E-026F		1象限费率3无功电能	ulong	4	
0270-0271		1象限费率4无功电能	ulong	4	
0272-0273		4象限总无功电能	ulong	4	
0274-0275		4象限费率1无功电能	ulong	4	
0276-0277		4象限费率2无功电能	ulong	4	
0278-0279		4象限费率3无功电能	ulong	4	
027A-027B		4象限费率4无功电能	ulong	4	二次侧电能参数,ulong数

Data format, 4 bytes length, unit

027C-027D		2-quadrant total reactive energy	ulong	4	Wh (varh), high byte first
027E-027F		2 Quadrant Tariff 1 Reactive Energy	ulong	4	
0280-0281		2 Quadrant Tariff 2 Reactive Energy	ulong	4	
0282-0283		2 quadrant rates 3 reactive energy	ulong	4	
0284-0285		2 Quadrant Rates 4 Reactive Energy	ulong	4	
0286-0287		3-quadrant total reactive energy	ulong	4	
0288-0289		3 Quadrant Tariff 1 Reactive Energy	ulong	4	
028A-028B		3 Quadrant Tariff 2 Reactive Energy	ulong	4	
028C-028D		3 Quadrant Rates 3 Reactive Energy	ulong	4	
028E-028F		3 Quadrant Rates 4 Reactive Energy	ulong	4	
0290-0291		Total forward active energy last month	ulong	4	Secondary side electric energy parameters, ulong data format, 4 byte length, unit Wh (varh), high byte first
0292-0293		Forward active power rate 1 electric energy last month	ulong	4	
0294-0295		Forward active power rate 2 electric energy last month	ulong	4	
0296-0297		Forward active power rate 3 electric energy last month	ulong	4	
0298-0299		Forward active power rate 4 electric energy last month	ulong	4	
029A-029B		Last month's reverse active total electric energy	ulong	4	
029C-029D		Reverse active power rate 1 electric energy last month	ulong	4	
029E-029F		Reverse active power rate 2 electric energy last month	ulong	4	
02A0-02A1		Last month's reverse active power rate 3 electric energy	ulong	4	
02A2-02A3		Last month's reverse active power rate 4 electric energy	ulong	4	
02A4-02A5		Total positive reactive power last month	ulong	4	
02A6-02A7		Forward reactive power rate 1 electric energy last month	ulong	4	

02A8-02A9		Forward reactive power rate 2 electric energy last month	ulong	4	Secondary side electric energy parameters, ulong data format, 4 byte length, unit Wh (varh), high byte first
02AA-02AB		Forward reactive power rate 3 electric energy last month	ulong	4	
02AC-02AD		Forward reactive power rate 4 electric energy last month	ulong	4	
02AE-02AF		Reverse reactive total electric energy last month	ulong	4	
02B0-02B1		Reverse reactive power rate 1 electric energy last month	ulong	4	
02B2-02B3		Reverse reactive power rate 2 electric energy last month	ulong	4	
02B4-02B5		Reverse reactive power rate 3 electric energy last month	ulong	4	
02B6-02B7		Reverse reactive power rate 4 electric energy last month	ulong	4	Secondary side electric energy parameters, ulong data format, 4 byte length, unit Wh (varh), high byte first
02B8-02B9		Total reactive energy in quadrant 1 last month	ulong	4	
02BA-02BB		1 quadrant rate 1 reactive energy last month	ulong	4	
02BC-02BD		Last month 1 quadrant rate 2 reactive energy	ulong	4	
02BE-02BF		1 Quadrant Rate 3 Reactive Energy in Last Month	ulong	4	
02C0-02C1		1 quadrant rate 4 reactive energy last month	ulong	4	
02C2-02C3		Total reactive energy in 4 quadrants last month	ulong	4	
02C4-02C5		4-quadrant rate 1 reactive energy last month	ulong	4	
02C6-02C7		Last month 4 quadrant rate 2 reactive energy	ulong	4	
02C8-02C9		Last month 4 quadrant rate 3 reactive energy	ulong	4	
02CA-02CB		4 quadrant rate 4 reactive energy last month	ulong	4	
02CC-02CD		The total reactive energy of quadrant 2 last month	ulong	4	
02CE-02CF		Last month 2 quadrant rate 1 reactive energy	ulong	4	
02D0-02D1		Last month 2 quadrant rate 2 reactive energy	ulong	4	

02D2-02D3		Last month 2 quadrant rate 3 reactive energy	ulong	4	
02D4-02D5		Last month 2 quadrant rate 4 reactive energy	ulong	4	
02D6-02D7		The total reactive energy of the 3 quadrants in the last month	ulong	4	
02D8-02D9		3-quadrant rate 1 reactive energy for the previous month	ulong	4	
02DA-02DB		Last month 3 quadrant rate 2 reactive energy	ulong	4	
02DC-02DD		Last month 3 quadrant rate 3 reactive energy	ulong	4	
02DE-02DF		Last month 3 quadrant rate 4 reactive energy	ulong	4	
02E0-02E1		Total forward active energy in last month	ulong	4	Secondary side electric energy parameters, ulong data format, 4 byte length, unit Wh (varh), high byte first
02E2-02E3		Forward active power rate 1 electric energy last month	ulong	4	
02E4-02E5		Forward active power rate 2 electric energy last month	ulong	4	
02E6-02E7		Forward active power rate 3 electric energy last month	ulong	4	
02E8-02E9		Forward active power rate 4 electric energy last month	ulong	4	
02EA-02EB		Reverse active total electric energy last month	ulong	4	
02EC-02ED		Last month reverse active power rate 1 electric energy	ulong	4	
02EE-02EF		Last month reverse active power rate 2 electric energy	ulong	4	
02F0-02F1		Last month reverse active power rate 3 electric energy	ulong	4	
02F2-02F3		Last month reverse active power rate 4 electric energy	ulong	4	
02F4-02F5		Total positive reactive power last month	ulong	4	Secondary side electric energy parameters, ulong data format, 4 byte length, unit Wh
02F6-02F7		Forward reactive power rate 1 electric energy last month	ulong	4	
02F8-02F9		Forward reactive power rate 2 electric energy last month	ulong	4	

02FA-02FB		Forward reactive power rate 3 electric energy last month	ulong	4	(varh), high byte first
02FC-02FD		Forward reactive power rate 4 electric energy last month	ulong	4	
02FE-02FF		Reverse reactive total electric energy last month	ulong	4	
0300-0301		Reverse reactive power rate 1 electric energy last month	ulong	4	
0302-0303		Reverse reactive power rate 2 electric energy last month	ulong	4	
0304-0305		Reverse reactive power rate 3 electric energy last month	ulong	4	
0306-0307		Reverse reactive power rate 4 electric energy last month	ulong	4	Secondary side electric energy parameters, ulong data format, 4 byte length, unit Wh (varh), high byte first
0308-0309		Quadrant 1 total reactive energy of last month	ulong	4	
030A-030B		Last month 1 Quadrant rate 1 Reactive energy	ulong	4	
030C-030D		Last month 1 Quadrant rate 2 Reactive energy	ulong	4	
030E-030F		Last month 1 Quadrant rate 3 Reactive energy	ulong	4	
0310-0311		1 quadrant rate 4 reactive energy last month	ulong	4	
0312-0313		4-quadrant total reactive energy for last month	ulong	4	
0314-0315		4 Quadrant Rate 1 Reactive Energy for Last Month	ulong	4	
0316-0317		4 Quadrant Rates 2 Reactive Energy for Last Month	ulong	4	
0318-0319		4 Quadrant Rates 3 Reactive Energy Last Month	ulong	4	
031A-031B		Last month 4 quadrant rates 4 reactive energy	ulong	4	
031C-031D		2-quadrant total reactive energy for last month	ulong	4	
031E-031F		Last month 2 Quadrant rate 1 Reactive energy	ulong	4	
0320-0321		Last month 2 Quadrant rates 2 Reactive energy	ulong	4	
0322-0323		Last month 2 Quadrant rate 3 Reactive energy	ulong	4	

0324-0325		Last month 2 Quadrant rates 4 Reactive energy	ulong	4	
0326-0327		Total reactive energy of 3 quadrants last month	ulong	4	
0328-0329		3 Quadrant Rates 1 Reactive Energy for Last Month	ulong	4	
032A-032B		Last month 3 quadrant rates 2 reactive energy	ulong	4	
032C-032D		Last Month 3 Quadrant Rate 3 Reactive Energy	ulong	4	
032E-032F		Last month 3 quadrant rates 4 reactive energy	ulong	4	
0330-043F		reserve		544	
0440-0441		Forward active total electric energy	float	4	Primary side electric energy parameters , using IEEE754 floating point data format, 4 Byte length, unit Wh (varh), high byte first
0442-0443		Forward active power rate 1 electric energy	float	4	
0444-0445		Forward active power rate 2 electric energy	float	4	
0446-0447		Forward active power rate 3 electric energy	float	4	
0448-0449		Forward active power rate 4 electric energy	float	4	
044A-044B		Total reverse active energy	float	4	
044C-044D		Reverse active power rate 1 electric energy	float	4	
044E-044F		Reverse active power rate 2 electric energy	float	4	
0450-0451		Reverse active power rate 3 electric energy	float	4	
0452-0453		Reverse active power rate 4 electric energy	float	4	
0454-0455		Total forward reactive energy	float	4	Primary side electric energy parameters , using IEEE754 floating point data format, 4 Byte length, unit Wh (varh), high byte first
0456-0457		Forward reactive power rate 1 electric energy	float	4	
0458-0459		Forward reactive power rate 2 electric energy	float	4	
045A-045B		Forward reactive power rate 3 electric energy	float	4	
045C-045D		Forward reactive power rate 4 electric energy	float	4	
045E-045F		total reverse reactive energy	float	4	
0460-0461		Reverse reactive power rate 1 electric energy	float	4	
0462-0463		Reverse reactive power rate 2 electric energy	float	4	

0464-0465		Reverse reactive power rate 3 electric energy	float	4	Primary side power parameters, using IEEE754 floating point data format, 4Byte length, unit Wh (varh), high byte first
0466-0467		Reverse reactive power rate 4 electric energy	float	4	
0468-0469		1 quadrant total reactive energy	float	4	
046A-046B		1 Quadrant Tariff 1 Reactive Energy	float	4	
046C-046D		1 Quadrant Tariff 2 Reactive Energy	float	4	
046E-046F		1 Quadrant Tariff 3 Reactive Energy	float	4	
0470-0471		1 Quadrant Tariff 4 Reactive Energy	float	4	
0472-0473		4-quadrant total reactive energy	float	4	
0474-0475		4 Quadrant Tariff 1 Reactive Energy	float	4	
0476-0477		4 Quadrant Tariff 2 Reactive Energy	float	4	
0478-0479		4 Quadrant Tariff 3 Reactive Energy	float	4	
047A-047B		4 Quadrant Rates 4 Reactive Energy	float	4	
047C-047D		2-quadrant total reactive energy	float	4	
047E-047F		2 Quadrant Tariff 1 Reactive Energy	float	4	
0480-0481		2 Quadrant Tariff 2 Reactive Energy	float	4	
0482-0483		2 quadrant rates 3 reactive energy	float	4	
0484-0485		2 Quadrant Rates 4 Reactive Energy	float	4	
0486-0487		3-quadrant total reactive energy	float	4	
0488-0489		3 Quadrant Tariff 1 Reactive Energy	float	4	
048A-048B		3 Quadrant Tariff 2 Reactive Energy	float	4	
048C-048D		3 Quadrant Rates 3 Reactive Energy	float	4	
048E-048F		3 Quadrant Rates 4 Reactive Energy	float	4	
0490-0491		Total forward active energy last month	float	4	Primary side electric energy parameters , using IEEE754 floating point data format, 4 Byte length, unit Wh
0492-0493		Forward active power rate 1 electric energy last month	float	4	
0494-0495		Forward active power rate 2 electric energy last month	float	4	
0496-0497		Forward active power	float	4	

		rate 3 electric energy last month			(varh), high byte first
0498-0499		Forward active power rate 4 electric energy last month	float	4	
049A-049B		Last month's reverse active total electric energy	float	4	
049C-049D		Reverse active power rate 1 electric energy last month	float	4	
049E-049F		Reverse active power rate 2 electric energy last month	float	4	
04A0-04A1		Last month's reverse active power rate 3 electric energy	float	4	
04A2-04A3		Last month's reverse active power rate 4 electric energy	float	4	
04A4-04A5		Total positive reactive power last month	float	4	Primary side electric energy parameters , using IEEE754 floating point data format, 4 Byte length, unit Wh (varh), high byte first
04A6-04A7		Forward reactive power rate 1 electric energy last month	float	4	
04A8-04A9		Forward reactive power rate 2 electric energy last month	float	4	
04AA-04AB		Forward reactive power rate 3 electric energy last month	float	4	
04AC-04AD		Forward reactive power rate 4 electric energy last month	float	4	
04AE-04AF		Reverse reactive total electric energy last month	float	4	
04B0-04B1		Reverse reactive power rate 1 electric energy last month	float	4	
04B2-04B3		Reverse reactive power rate 2 electric energy last month	float	4	
04B4-04B5		Reverse reactive power rate 3 electric energy last month	float	4	
04B6-04B7		Reverse reactive power rate 4 electric energy last month	float	4	Primary side power parameters, using IEEE754 floating point data format, 4Byte length, unit Wh (varh), high byte first
04B8-04B9		Total reactive energy in quadrant 1 last month	float	4	
04BA-04BB		1 quadrant rate 1 reactive energy last month	float	4	

04BC-04BD		Last month 1 quadrant rate 2 reactive energy	float	4	
04BE-04BF		1 Quadrant Rate 3 Reactive Energy in Last Month	float	4	
04C0-04C1		1 quadrant rate 4 reactive energy last month	float	4	
04C2-04C3		Total reactive energy in 4 quadrants last month	float	4	
04C4-04C5		4-quadrant rate 1 reactive energy last month	float	4	
04C6-04C7		Last month 4 quadrant rate 2 reactive energy	float	4	
04C8-04C9		Last month 4 quadrant rate 3 reactive energy	float	4	
04CA-04CB		4 quadrant rate 4 reactive energy last month	float	4	
04CC-04CD		The total reactive energy of quadrant 2 last month	float	4	
04CE-04CF		Last month 2 quadrant rate 1 reactive energy	float	4	
04D0-04D1		Last month 2 quadrant rate 2 reactive energy	float	4	
04D2-04D3		Last month 2 quadrant rate 3 reactive energy	float	4	
04D4-04D5		Last month 2 quadrant rate 4 reactive energy	float	4	
04D6-04D7		The total reactive energy of the 3 quadrants in the last month	float	4	
04D8-04D9		3-quadrant rate 1 reactive energy for the previous month	float	4	
04DA-04DB		Last month 3 quadrant rate 2 reactive energy	float	4	
04DC-04DD		Last month 3 quadrant rate 3 reactive energy	float	4	
04DE-04DF		Last month 3 quadrant rate 4 reactive energy	float	4	
04E0-04E1		Total forward active energy in last month	float	4	
04E2-04E3		Forward active power rate 1 electric energy last month	float	4	
04E4-04E5		Forward active power rate 2 electric energy last month	float	4	
04E6-04E7		Forward active power	float	4	

		rate 3 electric energy last month			Primary side electric energy parameters , using IEEE754 floating point data format, 4 Byte length, unit Wh (varh), high byte first
04E8-04E9		Forward active power rate 4 electric energy last month	float	4	
04EA-04EB		Reverse active total electric energy last month	float	4	
04EC-04ED		Last month reverse active power rate 1 electric energy	float	4	
04EE-04EF		Last month reverse active power rate 2 electric energy	float	4	
04F0-04F1		Last month reverse active power rate 3 electric energy	float	4	
04F2-04F3		Last month reverse active power rate 4 electric energy	float	4	
04F4-04F5		Total positive reactive power last month	float	4	Primary side electric energy parameters , using IEEE754 floating point data format, 4 Byte length, unit Wh (varh), high byte first
04F6-04F7		Forward reactive power rate 1 electric energy last month	float	4	
04F8-04F9		Forward reactive power rate 2 electric energy last month	float	4	
04FA-04FB		Forward reactive power rate 3 electric energy last month	float	4	
04FC-04FD		Forward reactive power rate 4 electric energy last month	float	4	
04FE-04FF		Reverse reactive total electric energy last month	float	4	
0500-0501		Reverse reactive power rate 1 electric energy last month	float	4	
0502-0503		Reverse reactive power rate 2 electric energy last month	float	4	
0504-0505		Reverse reactive power rate 3 electric energy last month	float	4	
0506-0507		Reverse reactive power rate 4 electric energy last month	float	4	
0508-0509		Quadrant 1 total reactive energy of last month	float	4	
050A-050B		Last month 1 Quadrant rate 1 Reactive energy	float	4	
050C-050D		Last month 1 Quadrant rate 2 Reactive energy	float	4	
050E-050F		Last month 1 Quadrant rate 3 Reactive energy	float	4	
0510-0511		1 quadrant rate 4 reactive energy last	float	4	

		month			Primary side power parameters, using IEEE754 floating point data format, 4Byte length, unit Wh (varh), high byte first
0512-0513		4-quadrant total reactive energy for last month	float	4	
0514-0515		4 Quadrant Rate 1 Reactive Energy for Last Month	float	4	
0516-0517		4 Quadrant Rates 2 Reactive Energy for Last Month	float	4	
0518-0519		4 Quadrant Rates 3 Reactive Energy Last Month	float	4	
051A-051B		Last month 4 quadrant rates 4 reactive energy	float	4	
051C-051D		2-quadrant total reactive energy for last month	float	4	
051E-051F		Last month 2 Quadrant rate 1 Reactive energy	float	4	
0520-0521		Last month 2 Quadrant rates 2 Reactive energy	float	4	
0522-0523		Last month 2 Quadrant rate 3 Reactive energy	float	4	
0524-0525		Last month 2 Quadrant rates 4 Reactive energy	float	4	
0526-0527		Total reactive energy of 3 quadrants last month	float	4	
0528-0529		3 Quadrant Rates 1 Reactive Energy for Last Month	float	4	
052A-052B		Last month 3 quadrant rates 2 reactive energy	float	4	
052C-052D		Last Month 3 Quadrant Rate 3 Reactive Energy	float	4	
052E-052F		Last month 3 quadrant rates 4 reactive energy	float	4	