^TnnnXXXX	X,XXXX,XXXX,,, <cr></cr>	
Character	Description	Remark
\	Start bit	
Γ	Type	P: PC Query command, S: Set command, D: Device Response
nnn	Data length	Include CRC and ending character, except"^Tnnn"
XXXXX	Data	If the data is reserved, they will be filled nothing, so you would see double "," connected.
,	Seperator	Separate each data, please use "," to recognize the length of dat If double "," continuing, that means this data is reserved.
	0	
^D002DI∠or>	:: Query protocol ID	y commands
	200517 <crc><cr></cr></crc>	
response. L	500517 CRC 41	
^P003ID <cr></cr>	>: Query series number	
	D025LLXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
	nit X totally. LL: the available number of X.	
	0251401234567890123456789 <crc><cr>, it meas ID is 0</cr></crc>	1234567890123
Example. D	0231 10123 1307070123 130707 Teltes 101 ; 11 lifetas 115 13 0	123 130 70 70 123 .
^P004VFW<	Ccr>: Query CPU version	
	0017VERFW:nnnnn.nn <crc><cr></cr></crc>	
n: 0~9		
	017VERFW:00001.00 <crc><cr></cr></crc>	
Zampic. D	or, and mission offer ser	
^P005VEW2	<pre><cr>: Query secondary CPU version</cr></pre>	
	0018VERFW2:nnnnn.nn <crc><cr></cr></crc>	
n: 0~9	5018 VERT WZ.IIIIIIIII.IIII CRC CI	
	019VEDEW/2.00001.00 < CD C> <>	
Example: ^D	018VERFW2:00001.00 <crc><cr></cr></crc>	
ADOOENEUUT	DCD IMCH	
	C <cr>: Query DSP and MCU version</cr>	(CDC) ()
	0042YYMMDDHHMMSS,yymmddhhmmss,a,b,cccc,dddd-	<crc><cr></cr></crc>
DSP version: MCU version	; yymmddhhmmss	
MCU versior	n; yymmddhhmmss	
MCU version ^P003MD <c< th=""><th>n; yymmddhhmmss r>: Query device model</th><th></th></c<>	n; yymmddhhmmss r>: Query device model	
MCU version ^P003MD <c ^l<="" response:="" td=""><td>n; yymmddhhmmss r>: Query device model 037AAA,BBBBBBB,CC,D,E,FFFF,GGGG,HH,III<crc><</crc></td><td></td></c>	n; yymmddhhmmss r>: Query device model 037AAA,BBBBBBB,CC,D,E,FFFF,GGGG,HH,III <crc><</crc>	
MCU version ^P003MD <c< td=""><td>n; yymmddhhmmss r>: Query device model</td><td>cr> Remark</td></c<>	n; yymmddhhmmss r>: Query device model	cr> Remark
MCU version ^P003MD <cr ^[<="" response:="" td=""><td>n; yymmddhhmmss r>: Query device model 037AAA,BBBBBBB,CC,D,E,FFFF,GGGG,HH,III<crc><</crc></td><td></td></cr>	n; yymmddhhmmss r>: Query device model 037AAA,BBBBBBB,CC,D,E,FFFF,GGGG,HH,III <crc><</crc>	
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MCU version *P003MD <c: ^i="" aaa="" bbbbbbb="" cc<="" data="" response:="" td=""><td>n; yymmddhhmmss r>: Query device model 037AAA,BBBBBB,CC,D,E,FFFF,GGGG,HH,III<crc> Description Machine number 机种 Output rated VA 额定VA值 Output power factor 输出功率因数 AC input phase number</crc></td><td>Remark 000: Infini-Solar 10KW/3P 001: Infini-Solar 15KW/3P 002: Infini-Solar 15KW/3P 002: Infini-Solar 15KW/3P-客制 003: Infini-Solar WP(Infini WP 12K和15k通过功率区分) 004: Infini-Solar WP 30KW/3P 005: Infini-Solar WP LV 6KW/2P 006: Infini-Solar WP TWIN B: 0~9, unit: VA</td></c:>	n; yymmddhhmmss r>: Query device model 037AAA,BBBBBB,CC,D,E,FFFF,GGGG,HH,III <crc> Description Machine number 机种 Output rated VA 额定VA值 Output power factor 输出功率因数 AC input phase number</crc>	Remark 000: Infini-Solar 10KW/3P 001: Infini-Solar 15KW/3P 002: Infini-Solar 15KW/3P 002: Infini-Solar 15KW/3P-客制 003: Infini-Solar WP(Infini WP 12K和15k通过功率区分) 004: Infini-Solar WP 30KW/3P 005: Infini-Solar WP LV 6KW/2P 006: Infini-Solar WP TWIN B: 0~9, unit: VA
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MCU version P003MD <c: ^e="" aaaa="" bbbbbbb="" cc="" d="" data="" e="" ffff="" gggg="" hh="" iii<="" response:="" td=""><td>n: yymmddhhmmss r>: Query device model D037AAA,BBBBBBB,CC,D,E,FFFF,GGGG,HH,III<crc> Description Machine number 机种 Output rated VA 额定VA值 Output power factor 输出功率因数 AC input phase number AC输入相数 AC output phase number AC输出相数 Norminal AC output voltage 额定输出电压 Norminal AC input voltage 额定输入电压 Battery piece number 电池节数 Battery standard voltage per unit 每节电池标准电压</crc></td><td>Remark 000: Infini-Solar 10KW/3P 001: Infini-Solar 15KW/3P 002: Infini-Solar 15KW/3P 002: Infini-Solar 15KW/3P-客制 003: Infini-Solar WP(Infini WP 12K和15k通过功率区分) 004: Infini-Solar WP 30KW/3P 005: Infini-Solar WP LV 6KW/2P 006: Infini-Solar WP TWIN B: 0~9, unit: VA C: 0~9 D: 1~3 E: 1~3 F: 0~9, unit: 0.1V G: 0~9, unit: 0.1V H: 0~9 I: 0~9, unit: 0.1V</td></c:>	n: yymmddhhmmss r>: Query device model D037AAA,BBBBBBB,CC,D,E,FFFF,GGGG,HH,III <crc> Description Machine number 机种 Output rated VA 额定VA值 Output power factor 输出功率因数 AC input phase number AC输入相数 AC output phase number AC输出相数 Norminal AC output voltage 额定输出电压 Norminal AC input voltage 额定输入电压 Battery piece number 电池节数 Battery standard voltage per unit 每节电池标准电压</crc>	Remark 000: Infini-Solar 10KW/3P 001: Infini-Solar 15KW/3P 002: Infini-Solar 15KW/3P 002: Infini-Solar 15KW/3P-客制 003: Infini-Solar WP(Infini WP 12K和15k通过功率区分) 004: Infini-Solar WP 30KW/3P 005: Infini-Solar WP LV 6KW/2P 006: Infini-Solar WP TWIN B: 0~9, unit: VA C: 0~9 D: 1~3 E: 1~3 F: 0~9, unit: 0.1V G: 0~9, unit: 0.1V H: 0~9 I: 0~9, unit: 0.1V
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MCU version P003MD <c: ^e="" aaaa="" bbbbbbb="" cc="" d="" data="" e="" ffff="" gggg="" hh="" iii<="" response:="" td=""><td>n: yymmddhhmmss r>: Query device model D037AAA,BBBBBBB,CC,D,E,FFFF,GGGG,HH,III<crc> Description Machine number 机种 Output rated VA 额定VA值 Output power factor 输出功率因数 AC input phase number AC输入相数 AC output phase number AC输出相数 Norminal AC output voltage 额定输出电压 Norminal AC input voltage 额定输入电压 Battery piece number 电池节数 Battery standard voltage per unit 每节电池标准电压 D047AAAA,BBB,CCCC,DDDD,EEEE,FFFF,GGGG,H,II,J</crc></td><td> Remark </td></c:>	n: yymmddhhmmss r>: Query device model D037AAA,BBBBBBB,CC,D,E,FFFF,GGGG,HH,III <crc> Description Machine number 机种 Output rated VA 额定VA值 Output power factor 输出功率因数 AC input phase number AC输入相数 AC output phase number AC输出相数 Norminal AC output voltage 额定输出电压 Norminal AC input voltage 额定输入电压 Battery piece number 电池节数 Battery standard voltage per unit 每节电池标准电压 D047AAAA,BBB,CCCC,DDDD,EEEE,FFFF,GGGG,H,II,J</crc>	Remark

CCCC	AC input rated current AC输入额定电流	C: 0~9, unit: 0.1A
DDDD	AC output rated voltage AC输出额定电压	D: 0~9, unit: 0.1V
EEEE	AC output rated current AC输出额定电流	E: 0~9, unit: 0.1A
FFFF	MPPT rated current per string 每路MPPT额定电流	F: 0~9, unit: 0.1A
GGGG	Battery rated voltage 电池额定电压	G: 0~9, unit: 0.1V
Н	MPPT track number MPPT组数	H: 0~9
II	Machine type 机型	00: Grid type, 01: Off-grid type, 10: Hybrid type
J	Topology 拓扑	0: transformerless, 1: transformer
K	Enable/Disable parallel for output	0: disable, 1: enable
L	Enable/Disable for real-time control	0: disable, 1: enable
M	reserved	(Only for 15KW)
NN	Parallel status	0: NEW,1: slave,2: Master(适用于WP系列机器)
00	charge status	0:discharge ,1: CV, 2: Float, 3:CC(适用于WP系列机器)
Р	GenPort	0:disable inout/output 1:enable output (As output)(reserved) 2:enable Intput(As Gen) 3.enable AC coupling

^P003GS<cr>: Query general status
Response: ^D114AAAAA,BBBBB,CCCC,DDDD,EEEE,FFF,±GGGGG,HHHH,IIII,JJJJ,KKKK,LLLL,
MMMM,OOOO,PPPP,QQQQ,RRRR,,,,VVV,WWW,XXX,Y,Z<CRC><cr>

Data	Description	Remark
AAAAA0	Solar input voltage 1 Solar1输入电压	A: 0~9, unit: 0.1V
BBBBB1	Solar input voltage 2 Solar2输入电压	B: 0~9, unit: 0.1V
CCCC2	Solar input current 1 Solar1输入电流	C: 0~9, unit: 0.01A
DDDD3	Solar input current 2 Solar2输入电流	D: 0~9, unit: 0.01A
EEEE4	Battery voltage 电池电压	E: 0~9, unit: 0.1V
FFF5	Battery capacity 电池容量	F: 0~9, unit: %
±GGGGG6	Battery current 电池电流	G: 0~9, unit: 0.1A, +: charge, -: discharge
нннн7	AC input voltage R AC输入R相电压	H: 0~9, unit: 0.1V
IIII8	AC input voltage S AC输入S相电压	I: 0~9, unit: 0.1V
JJJJ9	AC input voltage T AC输入T相电压	J: 0~9, unit: 0.1V
KKKK10	AC input frequency AC输入频率	K: 0~9, unit: 0.01Hz
LLLL11	AC input_current_R AC输入R相电流 Reserved	L: 0~9, unit: 0.1A
MMMM12	AC input current S AC输入S相电流 Reserved	M: 0~9, unit: 0.1A
NNNN13	AC input current T AC输入T相电流 Reserved	N: 0~9, unit: 0.1A
000014	AC output voltage R AC输出R相电压	O: 0~9, unit: 0.1V
PPPP15	AC output voltage S AC输出S相电压	P: 0~9, unit: 0.1V
QQQQ16	AC output voltage T AC输出T相电压	Q: 0~9, unit: 0.1V
RRRR17	AC output frequency AC输出频率	R: 0~9, unit: 0.01Hz
VVV18	Inner temperature 内部环温	V: 0~9, unit: degree centigrade
WWW19	Component max temperature 内部机件最高温度	W: 0~9, unit: degree centigrade

37373730	External battery temperature	
XXX20	外部电池温度	X: 0~9, unit: degree centigrade
3701	Setting change bit	0: No setting change
Y21	设置有变化标识位	1: Setting charge, you have to inquire all of command.
Z22	L1-L2 OP Angle	1:120度
	L1-L2输出角度	2:180度
^P004G\$2 <cr`< td=""><td>>: Query Query Generator and secondary output information</td><td>on .</td></cr`<>	>: Query Query Generator and secondary output information	on .
	· · · · · · · · · · · · · · · · · · ·	HHH,IIII,JJJJ,KKKK,LLLL,MMMM,NNNN,OOO <crc><cr></cr></crc>
Data	Description	Remark
AAAAA0	Solar input voltage 3	A: 0~9, unit: 0.1V
AAAAAU	Solar3输入电压	A. 0~9, unit. 0.1 v
BBBB1	Solar input current 3	B: 0~9, unit: 0.01A
	Solar3输入电流	· · · · · · · · · · · · · · · · · · ·
CCCC2	Generator input voltage R 发电机输入 R相电压	C: 0~9, unit: 0.1V
	Generator input voltage S	
DDDD3	发电机输入S相电压	D: 0~9, unit: 0.1V
EEEE4	Generator input voltage T	E: 0~9, unit: 0.1V
LLLLT	发电机输入T相电压	E. 0 - 7, unit. 0.1 v
FFFF5	Generator input frequency 发电机输入频率	F: 0~9, unit: 0.01Hz
	及电机栅入频率 AC output voltage R	
GGGG6	AC输出R相电压	I: 0~9, unit: 0.1V
НННН7	AC output voltage S	I. O. O. speries O. I.V.
пппп/	AC输出S相电压	J: 0~9, unit: 0.1V
IIII8	AC output voltage T	K: 0~9, unit: 0.1V
-	AC输出T相电压	
ЈЈЈЈ9	AC output frequency AC输出频率	L: 0~9, unit: 0.01Hz
KKKK10	Battery under voltage for 2rd output	n: 0~9, unit: 0.1V
LLLL11	Battery under-back voltage for 2rd output	n: 0~9, unit: 0.1V
MMMM12	reserved	
NNNN13	reserved	
00014	Second output load duration	aaa:000-995min; 000:Always loaded
	第二路输出带载持续时间	
	Query power status	
Kesponse:		
^D107AAAA	A.BBBBB±DDDDD.±EEEEE.±FFFFF.±GGGGG.HHHH	IH.IIIII.JJJJJ.KKKKK.J.J.J.J.MMMMM.NNNN.OOOOO.PPP.O.R.S.T.U.
V <crc><cr></cr></crc>		IH,IIIII,JJJJJ,KKKKK,LLLLL,MMMMM,NNNNN,OOOOO,PPP,Q,R,S,T,U,
	Description	IH,IIIII,JJJJJ,KKKKK,LLLLL,MMMMM,NNNNN,OOOOO,PPP,Q,R,S,T,U, Remark
V <crc><cr></cr></crc>	Description Solar input power 1	
V <crc><cr> Data AAAAA0</cr></crc>	Description Solar input power 1 Solar1输入功率	Remark A: 0~9, unit: W
V <crc><cr> Data</cr></crc>	Description Solar input power 1	Remark
V <crc><cr> Data AAAAA0 BBBBB1</cr></crc>	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R	Remark A: 0~9, unit: W B: 0~9, unit: W
V <crc><cr> Data AAAAA0</cr></crc>	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率	Remark A: 0~9, unit: W
V <crc><cr> Data AAAAA0 BBBBB1</cr></crc>	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S	Remark A: 0~9, unit: W B: 0~9, unit: W
VCRCScr>Data AAAAA0 BBBBB1 ±DDDDD2 ±EEEEE3	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output
V <crc>cr>Data AAAAA0 BBBBB1 ±DDDDD2</crc>	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output
VCRCScr>Data AAAAA0 BBBBB1 ±DDDDD2 ±EEEEE3	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output
VCRC Corp Data AAAAA0 BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4 ±GGGGG5	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power AC输入有功总功率	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output G: 0~9, unit: W, +: input, -: output
VCRC Corporate AAAAAA BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output
VCRC Corporate AAAAAA BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4 ±GGGGG5 HHHHH6	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power AC输入有功总功率 AC output active power R AC wiput active power R AC output active power R AC output active power R AC output active power S	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output G: 0~9, unit: W, +: input, -: output H: 0~9, unit: W
VCRC Corporate AAAAA0 BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4 ±GGGGG5	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power AC输入有功总功率 AC output active power R AC wiput active power R AC output active power R AC output active power R AC output active power S AC输出R相有功功率 AC output active power S AC输出S相有功功率	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output G: 0~9, unit: W, +: input, -: output
VCRC Corporate AAAAAA BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4 ±GGGGG5 HHHHH6	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power AC输入有功总功率 AC output active power R AC wiput total active power AC input total active power AC output active power R AC output active power S AC wiput active power S AC wiput active power S AC output active power S AC output active power T	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output G: 0~9, unit: W, +: input, -: output H: 0~9, unit: W
VCRC Corporate AAAAAA BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4 ±GGGGG5 HHHHHH6 IIIII7	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power AC输入有功总功率 AC output active power R AC wiput total active power AC输入有功总功率 AC output active power R AC output active power S AC输出R相有功功率 AC output active power S AC output active power S AC wiput active power T AC output active power T AC output active power T	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output G: 0~9, unit: W, +: input, -: output H: 0~9, unit: W I: 0~9, unit: W
VCRC Corporate AAAAAA BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4 ±GGGGG5 HHHHHH6 IIIII7	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power AC输入有功总功率 AC output active power R AC was active power R AC output active power R AC output active power S AC output active power S AC output active power S AC output active power T AC was active power T AC output active power T AC output active power T AC output total active power	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output G: 0~9, unit: W, +: input, -: output H: 0~9, unit: W I: 0~9, unit: W
VCRC Corporate AAAAAA BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4 ±GGGGG5 HHHHH6 IIIII7 JJJJJ8 KKKKK9	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power AC输入有功总功率 AC output active power R AC active power R AC output active power R AC output active power S AC output active power T AC output active power T AC output active power T AC output total active power	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output G: 0~9, unit: W, +: input, -: output H: 0~9, unit: W I: 0~9, unit: W J: 0~9, unit: W K: 0~9, unit: W
AAAAAO BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4 ±GGGGG5 HHHHH6 IIIII7 JJJJJ8	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power AC输入有功总功率 AC output active power R AC was active power R AC output active power R AC output active power S AC output active power S AC output active power S AC output active power T AC was active power T AC output active power T AC output active power T AC output total active power	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output G: 0~9, unit: W, +: input, -: output H: 0~9, unit: W I: 0~9, unit: W
AAAAAO BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4 ±GGGGG5 HHHHH6 IIIII7 JJJJJ8 KKKKK9 LLLLL10	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power AC输入有功总功率 AC output active power R AC输入目内功率 AC output active power R AC输出R相有功功率 AC output active power S AC输出S相有功功率 AC output active power T AC输出S相有功功率 AC output active power T AC输出T相有功功率 AC output active power T AC输出T相有功功率 AC output total active power AC输出T相有功功率 AC output total active power AC输出有功总功率 AC output apperent power R AC输出R相视在功率 AC output apperent power S	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output G: 0~9, unit: W, +: input, -: output H: 0~9, unit: W I: 0~9, unit: W J: 0~9, unit: W L: 0~9, unit: W
Data AAAAA0 BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4 ±GGGGG5 HHHHHH6 IIIII7 JJJJJ8 KKKKK9	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power AC输入有功总功率 AC output active power R AC输入目内动力率 AC output active power R AC输出R相有功功率 AC output active power S AC输出S相有功功率 AC output active power S AC whill S相有功功率 AC output active power T AC输出T相有功功率 AC output active power T AC输出T相有功功率 AC output active power AC输出T相有功功率 AC output active power AC输出有功总功率 AC output apperent power R AC输出R相视在功率 AC output apperent power S AC输出R相视在功率	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output G: 0~9, unit: W, +: input, -: output H: 0~9, unit: W I: 0~9, unit: W J: 0~9, unit: W K: 0~9, unit: W
VCRCSCPData AAAAA0 BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4 ±GGGGG5 HHHHH6 IIIII7 JJJJJ8 KKKKK9 LLLLL10 MMMMM11	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power AC输入有功总功率 AC output active power R AC输出R相有功功率 AC output active power R AC输出R相有功功率 AC output active power S AC输出S相有功功率 AC output active power S AC输出S相有功功率 AC output active power T AC输出T相有功功率 AC output active power R AC output active power AC输出用相对功率 AC output active power AC输出用相对功率 AC output total active power AC输出有功总功率 AC output apperent power R AC输出R相视在功率 AC output apperent power S AC输出S相视在功率 AC output apperent power T	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output G: 0~9, unit: W, +: input, -: output H: 0~9, unit: W I: 0~9, unit: W J: 0~9, unit: W L: 0~9, unit: W L: 0~9, unit: W
VCRCSCPData AAAAA0 BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4 ±GGGGG5 HHHHH6 IIIII7 JJJJJ8 KKKKK9 LLLLL10	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power AC输入有功总功率 AC output active power R AC输出R相有功功率 AC output active power R AC输出R相有功功率 AC output active power S AC输出S相有功功率 AC output active power S AC输出S相有功功率 AC output active power T AC输出T相有功功率 AC output active power R AC output active power R AC output active power AC输出用相对功率 AC output apperent power R AC output apperent power R AC output apperent power S AC输出R相视在功率 AC output apperent power S AC输出S相视在功率 AC output apperent power T AC输出T相视在功率	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output G: 0~9, unit: W, +: input, -: output H: 0~9, unit: W I: 0~9, unit: W J: 0~9, unit: W L: 0~9, unit: W
Data AAAAA0 BBBBB1 ±DDDDD2 ±EEEEE3 ±FFFFF4 ±GGGGG5 HHHHHH6 IIIII7 JJJJJ8 KKKKK9 LLLLL10 MMMMM11	Description Solar input power 1 Solar1输入功率 Solar input power 2 Solar2输入功率 AC input active power R AC输入R相有功功率 AC input active power S AC输入S相有功功率 AC input active power T AC输入T相有功功率 AC input total active power AC输入有功总功率 AC output active power R AC输出R相有功功率 AC output active power R AC输出R相有功功率 AC output active power S AC输出S相有功功率 AC output active power S AC输出S相有功功率 AC output active power T AC输出T相有功功率 AC output active power R AC output active power AC输出用相对功率 AC output active power AC输出用相对功率 AC output total active power AC输出有功总功率 AC output apperent power R AC输出R相视在功率 AC output apperent power S AC输出S相视在功率 AC output apperent power T	Remark A: 0~9, unit: W B: 0~9, unit: W D: 0~9, unit: W, +: input, -: output E: 0~9, unit: W, +: input, -: output F: 0~9, unit: W, +: input, -: output G: 0~9, unit: W, +: input, -: output H: 0~9, unit: W I: 0~9, unit: W J: 0~9, unit: W L: 0~9, unit: W L: 0~9, unit: W

PPP14	AC output power percentage AC输出功率百分比	P: 0~9, unit: %
Q15	AC output connect status AC输出连接状态	0: disconnect, 1: connect
R16	Solar input 1 work status Solar1工作状态	0: idle, 1: work
S17	Solar input 2 work status Solar2工作状态	0: idle, 1: work
T18	Battery power direction 电池能量流动方向	0: donothing, 1: charge, 2: discharge
U19	DC/AC power direction DC/AC能量流动方向	0: donothing, 1: AC-DC, 2: DC-AC
V20	Line power direction 市电能量流动方向	0: donothing, 1: input, 2: output

^P004PS2<cr>: Query Generator and secondary output information

Response: ^D082AAAAA,BBBBB,CCCCC,DDDDD,EEEEE,FFFFF,GGGGG,HHHHH,I,JJJJJ,KKKKK,LLLLL,MMMMM,NNN,O,P<CRC><cr>

Data	Description	Remark
AAAAA0	Solar input power 3 Solar3输入功率	A: 0~9, unit: W
BBBBB1	Generator input active power R 发电机输入R相有功功率	B: 0~9, unit: W
CCCCC2	Generator input active power S 发电机输入S相有功功率	C: 0~9, unit: W
DDDDD3	Generator input active power T 发电机输入T相有功功率	D: 0~9, unit: W
EEEEE4	Generator input total active power 发电机输入有功总功率	E: 0~9, unit: W
FFFFF5	AC output active power R AC输出R相有功功率	F: 0~9, unit: W
GGGGG6	AC output active power S AC输出S相有功功率	G: 0~9, unit: W
ННННН7	AC output active power T AC输出T相有功功率	H: 0~9, unit: W
IIIII8	AC output total active power AC输出有功总功率	I: 0~9, unit: W
JJJJJ9	AC output apperent power RAC输出R相视在功率	J: 0~9, unit: VA
KKKKK10	AC output apperent power SAC输出S相视在功率	K: 0~9, unit: VA
LLLLL11	AC output apperent power TAC输出T相视在功率	L: 0~9, unit: VA
MMMMM12	AC output total apperent power AC输出视在总功率	M: 0~9, unit: VA
NNN13	AC output power percentage AC输出功率百分比	N: 0~9, unit: %
O14	Solar input 3 work status Solar3工作状态	O:0: idle, 1: work
P15	second AC output connect status 第二路AC输出连接状态	P:0: disconnect, 1: connect

^P004MOD<cr>: Query working mode Response: ^D005XX<CRC><cr>

Response. Buoth CRC Set		
Description	Remark	
0	Power on mode	
1	Standby mode	
2	Bypass mode	
3	Battery mode	
4	Fault mode	
5	Hybrid mode(Line mode, Grid mode)	
6	Charge mode	
	0 1 2 3 4	

^P003WS<cr>: Query warning status
^D050A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X<CRC><cr>

200011,B,C,B,E,1,G,11,H,B,11,H,G,1,Q,1,G,1,C,1,H,H-CICC		
Data	Description	Remark
Δ	Solar input 1 loss Solar1输入电压超出可用范围	Solar input 1 voltage exceed the acceptable range

В	Solar input 2 loss Solar2输入电压超出可用范围	Solar input 2 voltage exceed the acceptable range
	Solar input 1 voltage too higher	
С	Solar1输入电压过高	Solar input 1 voltage exceed the highest level
D	Solar input 2 voltage too higher Solar2输入电压过高	Solar input 2 voltage exceed the highest level
Е	Battery under 电池电压过低	Battery voltage drop to unacceptable level
F	Battery low 电池电压偏低	Battery voltage near to unacceptable level
G	Battery open 电池未接	Battery disconnected
Н	Battery voltage too higher 电池电压过高	Battery voltage exceed the highest level (WP LV 6KW is reserved)
I	Battery low in hybrid mode 在hybrid工作模式下,电池已低于其允许的放电电压	Battery voltage drop to unacceptable level of hybrid mode
J	Grid voltage high loss AC输入电压超过可并网最高电压	AC input voltage higher than the highest level of AC feeding voltage
K	Grid voltage low loss AC输入电压低于可并网最低电压	AC input voltage lower than the lowest level of AC feeding voltage
L	Grid frequency high loss AC输入电压超过可并网最高频率	AC input frequency higher than the highest level of AC feeding frequency
M	Grid frequency low loss AC输入电压低于可并网最低频率	AC input voltage lower than the lowest level of AC feeding frequency
N	AC input long-time average voltage over AC输入电压平均值长时间超过其允许的电压	AC input long-time average voltage exceed the highest level
О	AC input voltage loss AC输入电压超出可使用范围	AC input voltage out of acceptable range
P	AC input frequency loss AC输入频率超出可使用范围	AC input frequency out of acceptable range
Q	AC input island AC输入孤岛	AC input has been detected for the island
R	AC input phase dislocation AC输入相序错误	AC input three phase dislocation
S	Over temperature 过温	Machine temperature near to unacceptable level
Т	Over load 过载	The loads connect to machine exceed abnormal level
U	EPO active EPO激活	Emergent power off active
V	AC input wave loss AC输入波形异常	AC input wave terrible
W	Equalization states 均充状态	Equalization states (WP LV 6KW is reserved)
X	Rapid_OnOff states Rapid 开关状态	外部是否触发rapid shutdown

Response: ^D042A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W<CRC><cr>

Data	Description	Remark
A	Mute buzzer beep 静音蜂鸣器	A: 0/1, 0: disable, 1: enable
В	Mute buzzer beep in standby mode 在Standby mode下,静音蜂鸣器	B: 0/1, 0: disable, 1: enable
С	Mute buzzer beep only on battery discharged status 在电池放电状态下,静音蜂鸣器	C: 0/1, 0: disable, 1: enable
D	Generator as AC input 发电机作为AC输入	C: 0/1, 0: disable, 1: enable
Е	Wide AC input range 宽的AC输入范围	C: 0/1, 0: disable, 1: enable
F	N/G relay close in battery mode N/G继电器在电池模式下闭合	F: 0/1, 0: disable, 1: enable
G	De-rating power for Grid voltage 根据市电电压降额	G: 0/1, 0: disable, 1: enable
Н	De-rating power for Grid frequency 根据市电频率降额	H: 0/1, 0: disable, 1: enable
I	BMS Battery Connect BMS锂电池控制	I: 0/1, 0: disable, 1: enable
J	Low frequency De-rating power 低頻降额	J:0/1, 0: disable, 1: enable

K	LVRT(Low voltage ride through) 低穿	K:0/1, 0: disable, 1: enable
L	HVRT(High voltage ride through) 高穿	L:0/1, 0: disable, 1: enable
М	Charge power limit(Only for VDE 4105)	M:0/1, 0: disable, 1: enable
N	External CT RLY Connect 外部CT继电器控制	N: 0/1, 0: disable, 1: enable
О	PV parallel PV并联	O:0/1, 0: disable, 1: enable
P	Ac output coupling 交流输出耦合	P:0/1, 0: disable, 1: enable
Q	文.加·田·梅音 reserved	Q:0/1, 0: disable, 1: enable
R	reserved	R:0/1, 0: disable, 1: enable
S	Allow opening of second output (WP LV 6KW is reserved)	S:0/1, 0: disable, 1: enable
Т	允许第二路输出开启 GFCI Chk	T:0/1, 0: disable, 1: enable
U	漏电流检测 RAPID ON	U:0/1, 0: disable, 1: enable
	Rapid 开关状态 InvDCCurrCntlEn	
V	逆变直流分量控制使能 Rapid -shutdown Cnt En	V:0/1, 0: disable, 1: enable
W	Rapid shutdown使能	W:0/1, 0: disable, 1: enable
^P002T <cr>: C</cr>	uery current time	
	17YYYMMDDHHFFSS <crc><cr></cr></crc>	
Data	Description	Remark
YYYY	Year	Y: 0~9
ММ	Month	M: 0~9
DD	Day	D: 0~9
нн	Hour	H: 0~9
FF	Minute	F: 0~9
SS	Second	S: 0~9
For example: ^D01720140	214201314 means the time of 2014-02-14, 20: 13: 14.	
201720110	211201311 means the time 012011 02 11, 20. 13. 11.	
	Query total generated energy 	
Response: ^D0	11NNNNNNNNCRC> <cr></cr>	
Data	Description	Remark
NNNNNNN	Generated energy	N: 0~9, unit: KWh
^P010EYyyyyn	nn <cr>: Query generated energy of year 查询年发电量</cr>	
Response: ADO	且例十次电量 12NNNNNNNNN <crc><cr></cr></crc>	
Data	Description Description	Remark
	Year Year	v: 0~9
yyyy nnn	the sum of character string "^P010EYyyyy"	n: 0~9, nnn is a decimal number, and it is low 8 bits of its
NNNNNNNN	Generated energy	hexadecimal type. N: 0~9, unit: Wh
N		
^Р012ЕМууууг	nmnnn <cr>: Query generated energy of month 查询月发电量</cr>	
Response: ^D0	I INNNNNNN <crc><cr></cr></crc>	
Data	Description	Remark
уууу	Year	y: 0~9
mm	Month	m: 0~9
nnn	the sum of character string "^P010EMyyyymm"	n: 0~9, nnn is a decimal number, and it is low 8 bits of its hexadecimal type.
NNNNNN	Generated energy	N: 0~9, unit: Wh
	Service onorgy	F

^P014EDyyy	ymmddnnn <cr>: Query generated energy of day 查询天发电量</cr>	
Response: ^I	0009NNNNNN <crc><cr></cr></crc>	
Data	Description	Remark
уууу	Year	y: 0~9
mm	Month	m: 0~9
dd	Day	d: 0~9
nnn	the sum of character string "^P010EDyyyymmdd"	n: 0~9, nnn is a decimal number, and it is low 8 bits of its hexadecimal type.
NNNNNN	Generated energy	N: 0~9, unit: Wh
^Р016ЕНууу	ymmddhhnnn <cr>: Query generated energy of hour 查询小时发电量</cr>	
Response: ^I	0008NNNNN <crc><cr></cr></crc>	
Data	Description	Remark
уууу	Year	y: 0~9
mm	Month	m: 0~9
dd	Day	d: 0~9
		h: 0~9
hh	Hour	
nnn	the sum of character string "^P010EHyyyymmddhh"	n: 0~9, nnn is a decimal number, and it is low 8 bits of its hexadecimal type.
NNNNN	Generated energy	N: 0~9, unit: Wh
	cr>: Query AC input voltage acceptable range for feed power 查询并网电压范围 2022AAAA,BBBB,CCCC,DDDD <crc><cr></cr></crc>	
		Dalr
Data	Description	Remark
AAAA	The highest voltage	A: 0~9, unit: 0.1V
BBBB	The lowest voltage	B: 0~9, unit: 0.1V
CCCC	The highest back voltage	A: 0~9, unit: 0.1V
DDDD	The lowest back voltage	B: 0~9, unit: 0.1V
	cr>: Query AC input frequency acceptable range of feed power 查询并网频率范围 D022AAAA,BBBB,CCCC,DDDD <crc><cr> Description</cr></crc>	Remark
	1	
AAAA	The highest frequency	A: 0~9, unit: 0.01Hz
BBBB	The lowest frequency	B: 0~9, unit: 0.01Hz
CCCC	The highest back frequency	A: 0~9, unit: 0.01Hz
DDDD	The lowest back frequency	B: 0~9, unit: 0.01Hz
△P005∩PMP	✓er>: Query the maximum output power	
	0012AAAAAA <crc><cr></cr></crc>	
		D
Data	Description	Remark
AAAAAA	The maximum power	A: 0-9, unit: W
^P005GPMP	<cr>: Query the maximum output power for feeding grid 查询最大并网功率</cr>	
Response: ^I	0008AAAAA <crc><cr></cr></crc>	
Data	Description	Remark
AAAAA	The maximum power	A: 0~9, unit: W
^P006MPPT	V <cr>: Query Solar input MPPT acceptable range 查询MPPT范围</cr>	
Response: ^I	D012AAAA,BBBB <crc><cr></cr></crc>	
Data	Description	Remark
AAAA	The highest voltage	A: 0~9, unit: 0.1V
BBBB	The lowest voltage	B: 0~9, unit: 0.1V
	1	· · · · · · · · · · · · · · · · · · ·
	>: Query Solar input voltage acceptable range 查询Solar输入电压范围	
Response: ^I	0013AAAAA,BBBB <crc><cr></cr></crc>	
Data	Description	Remark
AAAAA	The highest voltage	A: 0~9, unit: 0.1V
BBBB	The lowest voltage	B: 0~9, unit: 0.1V
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
^P004LST <c< td=""><td>or>: Query LCD sleep wait time 查询LCD休眠等待时间</td><td></td></c<>	or>: Query LCD sleep wait time 查询LCD休眠等待时间	
Response: ^I	0005AA <crc><cr></cr></crc>	

Data	Description	Remark
AA	IWait time	AA: 00, 01, 02, 10, 20 for selection, unit: 30second. 00 means LCD always light

^P003DI<cr>: Query default value of changeable parameter 查询可设置参数的默认值

Response:

^D123AAAA,BBBB,CCCC,DDDD,EEEE,FFFF,GGGG,HHHH,IIII,JJ,KKKK,LLLL,MMMM,NNN,OOOO,PPPP,QQQQ,RRRR,SSSS,TTTT,UUUU, VVVV,WWWW,XXX,YYYYY<CRC><cr>

Data	Description	Remark
AAAA0	AC input highest voltage for feed power AC输入可并网最高电压	A: 0~9, unit: 0.1V
BBBB1	AC input lowest voltage for feed power AC输入可并网最低电压	B: 0~9, unit: 0.1V
CCCC2	AC input highest frequency for feed power AC输入可并网最高频率	C: 0~9, unit: 0.01Hz
DDDD3	AC input lowest frequency for feed power AC输入可并网最低频率	D: 0~9, unit: 0.01Hz
EEEE4	Solar input highest MPPT voltage Solar输入允许最高MPPT电压	E: 0~9, unit: 0.1V
FFFF5	Solar input lowest MPPT voltage Solar输入允许最低MPPT电压	F: 0~9, unit: 0.1V
GGGG6	Solar input highest voltage Solar输入允许最高电压	G: 0~9, unit: 0.1V
нннн7	Solar input lowest voltage Solar输入允许最低电压	H: 0~9, unit: 0.1V
IIII8	AC input long-time highest average voltage AC输入长时间平均值允许的最高电压	I: 0~9, unit: 0.1V
JJ9	LCD sleep wait time LCD休眠等待时间	JJ: 00, 01, 02, 10, 20, unit: 30second
KKKK	Battery maximum charge current 电池允许最大充电电流	K: 0~9, unit: 0.1A
LLLL	Battery constant charge voltage(C.V.) 电池C.V.点充电电压	L: 0~9, unit: 0.1V
MMMM	Battery float charge voltage 电池浮充点电压	M: 0~9, unit: 0.1V
NNN	The wait time for feed power 并网等待时间	N: 0~9, unit: Second
0000	Start time for support loads 允许AC带载起始时间	O: 0~9, Format: HHMM, example: 1230 meas 12:30
PPPP	Ending time for support loads 允许AC带载结束时间	P: 0~9, Format: HHMM, example: 1230 meas 12:30
QQQQ	Start time for AC charger 允许AC充电起始时间	Q: 0~9, Format: HHMM, example: 1230 meas 12:30
RRRR	Ending time for AC charger 允许AC充电结束时间	R: 0~9, Format: HHMM, example: 1230 meas 12:30
SSSS	Battery under voltage 电池最低放电电压点	S: 0~9, unit: 0.1V
TTTT	Battery under back voltage 电池恢复放电电压点	T: 0~9, unit: 0.1V
UUUU	Battery weak voltage in hybrid mode Hybrid mode工作状态下,电池最低放电电压点	U: 0~9, unit: 0.1V
VVVV	Battery weak back voltage in hybrid mode Hybrid mode工作状态下,电池恢复放电电压点	V: 0~9, unit: 0.1V
wwww	Battery stop charger current level in floating charging 浮充状态下,允许关闭充电器的充电电流点	W: 0~9, unit: 0.1A
XXX	Keep charged time of battery catch stop charger current level 浮充状态下,电池到达允许关闭充电器的充电电流点后关闭充电器的等待时间	X: 0~9, unit: Minute
YYYY	Battery voltage of recover to charge when battery stop charger in floating charging 浮充状态下,电池恢复充电的电压点	Y: 0~9, unit: 0.1V

^P005BATS<cr>: Query battery setting

Response:
^D076AAAA,BBBB,CCCC,DDDD,EEE,FFFF,GGGG,HHHH,IIII,JJJJ,K,,,S,TTTT,UUU,VVVV,WWWW,XXX,YYY,ZZZ,aaa<CRC><cr>

_ 0, 01 _ 1 _ 1, _		
Data	Description	Remark
AAAA	Battery maximum charge current 电池允许的最大充电电流	A: 0~9, unit: 0.1A

	Battery constant charge voltage(C.V.)	
BBBB	电池C.V.充电电压	B: 0~9, unit: 0.1V
CCCC	Battery floating charge voltage 电池浮充电压	C: 0~9, unit: 0.1V
DDDD	Battery stop charger current level in floating charging 浮充状态下,允许关闭充电器的充电电流点	D: 0~9, unit: 0.1A
EEE	Keep charged time of battery catch stopped charging current level 浮充状态下,电池到达允许关闭充电器的充电电流点后关闭充电器的等待时间	E: 0~9, unit: Minute
FFFF	Battery voltage of recover to charge when battery stop charger in floating charging 浮充状态下,电池恢复充电的电压点	F: 0~9, unit: 0.1V
GGGG	Battery under voltage 电池最低放电电压点	G: 0~9, unit: 0.1V
нннн	Battery under back voltage 电池恢复放电电压点	H: 0~9, unit: 0.1V
IIII	Battery weak voltage in hybrid mode Hybrid mode工作状态下,电池最低放电电压点	I: 0~9, unit: 0.1V
JJJJ	Battery weak back voltage in hybrid mode Hybrid mode工作状态下,电池恢复放电电压点	J: 0~9, unit: 0.1V
K	Battery type 电池类型	0: Ordinary, 1: Li-Fe
S	AC charger keep battery voltage function enable/diable	0: disable, 1: enable
TTTT	AC charger keep battery voltage	T: 0~9, unit: 0.1V
UUU	Battery temperature sensor compensation	U: 0~9, unit: 0.1mV
VVVV	Max. AC charging current	V: 0~9, unit: 0.1A
WWWW	Battery discharge max current in hybrid mode	W: 0~9, unit: A
XXX	Battery under S0C	0-80%, unit: 1%(only for WP 30K)
YYY	Battery under back SOC	0-80%, unit: 1%(only for WP 30K)
ZZZ	Battery weak SOC in hybrid mode	5-95%, unit: 1%(only for WP 30K)
aaa	Battery weak back SOC in hybrid mode	5-100%, unit: 1%(only for WP 30K)
	· · ·	•

^P003DM<cr>: Query machine model

Response: ^D0	006AAA <crc><cr></cr></crc>	
Data	Description	Remark
	050	Hybrid type VDE certification
	051	Hybrid type AS4777 certification
	052	Hybrid type DK certification
	053	Hybrid type RD1663 certification
	054	Hybrid type G83 certification
	055	Hybrid type Taiwan certification
	056	Hybrid type USH certification
	057	Hybrid type USL certification
	058	Hybrid type VDE4105 certification
	059	Hybrid type Korea certification
	060	Hybrid type HongSun certification
	061	Hybrid type Sweden certification
	062	Hybrid type NRS097 certification
	063	Hybrid type Indian certification
	064	Hybrid type EN50438 certification
	065	Hybrid type EN50438(Czech) certification
	066	Hybrid type EN50438(DanMark) certification
	067	Hybrid type EN50438(Finland) certification
	068	Hybrid type EN50438(Ireland) certification
	069	Hybrid type EN50438(Norway) certification
	70	Hybrid type CEI-021 certification
	71	Hybrid type G59 certification
	72	Hybrid type NZLD certification
	73	Hybrid type Cyprus certification
	74	Hybrid type TOR certification
	75	Hybrid type EN50549 certification
	76	Hybrid type G98 certification
	77	Hybrid type IEEE1547 certification
AAA	100	Grid type VDE certification
AAA	101	Grid type AS4777 certification
	102	Grid type DK certification
	103	Grid type RD1663 certification
	104	Grid type G83 certification

105	Grid type Taiwan certification
106	Grid type USH certification
107	Grid type USL certification
108	Grid type VDE4105 certification
109	Grid type Korea certification
110	Grid type HongSun certification
111	Grid type Sweden certification
112	Grid type NRS097 certification
113	Grid type Indian certification
114	Grid type EN50438 certification
115	Grid type EN50438(Czech) certification
116	Grid type EN50438(DanMark) certification
117	Grid type EN50438(Finland) certification
118	Grid type EN50438(Ireland) certification
119	Grid type EN50438(Norway) certification
120	Grid type CEI-021 certification
121	Grid type G59 certification
122	Grid type NZLD certification
123	Grid typeCyprus certification
124	Grid typeTOR certification
125	Grid type EN50549 certification
126	Grid type G98 certification
127	Grid type IEEE1547 certification
150	Off Grid type
151	Off Grid 3 type

^P004MAR<cr>: Query machine adjustable range

Response

^D123AAAA,BBBB,CCCC,DDDD,EEEE,FFFF,GGGG,HHHH,III,JJJ,KKKK,LLLL,MMMM,NNNN,OOOO,PPPP,QQQQ,RRRR,SSSS,TTTT,UUU U,VVVV,WWWWW,XXXXX<CRC><cr>

Data	Description	Remark
AAAA	The upper limit of AC input highest voltage for feed power AC输入可并网最高电压可设值上限	A: 0~9, unit: 0.1V
BBBB	The lower limit of AC input highest voltage for feed power AC输入可并网最高电压可设值下限	B: 0~9, unit: 0.1V
CCCC	The upper limit of AC input lowest voltage for feed power AC输入可并网最低电压可设值上限	C: 0~9, unit: 0.1V
DDDD	The lower limit of AC input lowest voltage for feed power AC输入可并网最低电压可设值下限	D: 0~9, unit: 0.1V
EEEE	The upper limit of AC input highest frequency for feed power AC输入可并网最高频率可设值上限	E: 0~9, unit: 0.01Hz
FFFF	The lower limit of AC input highest frequency for feed power AC输入可并网最高频率可设值下限	F: 0~9, unit: 0.01Hz
GGGG	The upper limit of AC input lowest frequency for feed power AC输入可并网最低频率可设值上限	G: 0~9, unit: 0.01Hz
НННН	The lower limit of AC input lowest frequency for feed power AC输入可并网最低频率可设值下限	H: 0~9, unit: 0.01Hz
III	The upper limit of wait time for feed power 并网等待时间可设值上限	I: 0~9, unit: Second
JJJ	The lower limit of wait time for feed power 并网等待时间可设值下限	I: 0~9, unit: Second
KKKKK	The upper limit of solar maximum input voltage Solar输入最高电压可设值上限	K: 0~9, unit: 0.1V
LLLL	The lower limit of solar maximum input voltage Solar输入最高电压可设值下限	L: 0~9, unit: 0.1V
MMMM	The upper limit of solar minimum input voltage Solar输入最低电压可设值上限	M: 0~9, unit: 0.1V
NNNN	The lower limit of solar minimum input voltage Solar输入最低电压可设值下限	N: 0~9, unit: 0.1V
0000	The upper limit of solar maximum MPPT voltage 最高MPPT电压可设值上限	O: 0~9, unit: 0.1V
PPPP	The lower limit of solar maximum MPPT voltage 最高MPPT电压可设值下限	P: 0~9, unit: 0.1V
QQQQ	The upper limit of solar minimum MPPT voltage 最低MPPT电压可设值上限	Q: 0~9, unit: 0.1V
RRRR	The lower limit of solar minimum MPPT voltage 最低MPPT电压可设值下限	R: 0~9, unit: 0.1V

		1
SSSS	The upper limit of battery charged voltage 充电电压可设值上限	S: 0~9, unit: 0.1V
TTTT	The lower limit of battery charged voltage 充电电压可设值下限	T: 0~9, unit: 0.1V
บบบบ	The upper limit of battery Max. charged current 最大充电电流可设值上限	U: 0~9, unit: 0.1A
vvvv	The lower limit of battery Max. charged current 最大充电电流可设值下限	V: 0~9, unit: 0.1A
wwwww	The upper limit of maximum feeding power 最大并网功率可设值上限	W: 0~9, unit: W
XXXXX	The lower limit of maximum feeding power 最大并网功率可设值下限	X: 0~9, unit: W
L DOO LODG		
	>: Query current fault status	
Data	008AA,BB <crc><cr></cr></crc>	Remark
Data	Description The latest fault code	Kemark
AA	最新故障代码	A: 0~9
ВВ	The latest fault code ID stored in flash 在Flash最新存储故障代码的ID	BB: 0~8
Fault code list		
01	BUS exceed the upper limit BUS高压	
02	BUS dropp to the lower limit BUS低压	
03	BUS soft start circuit timeout	
04	BUS软启动超时 Inverter voltage soft start timeout	
	逆变软启动超时 Inverter current exceed the upper limit	
05	逆变过流 Temperature over	
06	过温	
07	Inverter relay work abnormal 继电器故障	
08	Current sample abnormal when inverter doesn't work 机器并工作时,电流采样异常	
09	Solar input voltage exceed upper limit Solar输入电压过高	
10	SPS power voltage abnormal 辅助电源电压异常	
11	Solar input current exceed upper limit Solar输入电流过高	
12	Leakage current exceed permit range 漏电流超过允许范围	
13	Solar insulation resistance too low	
14	Solar对地绝缘阻抗过低 Inverter DC current exceed permit range when feed power 并网时,逆变电流直流分量超过允许范围	
15	The AC input voltage or frequency has been detected different between master CPU and slave CPU 主从CPU对AC输入电压或频率侦测值相差较大	
16	Leakage current detect circuit abnormal when inverter doesn't work	
17	机器未工作时,漏电流检测电路异常 Comminication loss between master CPU and slave CPU 主从CPU通信丢失	
18	Comminicate data discordant between master CPU and slave CPU 主从CPU通信协议不匹配	
19	AC input ground wire loss 地线未接	
22	Battery voltage exceed upper limit 电池电压过高	
23	Uver load 过载	
24	区敦 S phase Inverter current exceed the upper limit S相逆变过流	
25	T phase Inverter current exceed the upper limit	
26	T相逆变过流 AC output short	
	输出短接	

27	Fan lock	
	风扇堵转 inverter Current sample abnormal when inverter doesn't work	(WFD 20V)
29	机器并工作时,逆变电流采样异常	(WP 30K)
30	S phase Inverter DC current exceed permit range when feed power 并网时,S相逆变电流直流分量超过允许范围	(WP 30K)
31	T phase Inverter DC current exceed permit range when feed power 并网时,T相逆变电流直流分量超过允许范围	(WP 30K)
32	Battery DC-DC current over 电池DC-DC电流过高	
33	AC output voltage too low 输出电压过低	
34	AC output voltage too high 输出电压过高	
35	Control board wiring error 控制板接线异常	
36	AC circuit voltage sample error AC电路电压采样差异较大	
37	AC N wire current over 市电N线过流	
39	S phase AC output voltage too low S相输出电压过低	
40	T phase AC output voltage too low T相输出电压过低	
41	S phase AC output voltage too high S相输出电压过高	
42	T phase AC output voltage too high T相输出电压过高	
50	Relay version error 继电器版本错误	
51	外接电池过温	
52	Sloarl过温	
53	Sloar2过温	
54	Nbat过温	
55	R相逆变过温	
56	S相逆变过温	
57	T相逆变过温	
58	PDCDC 过温 Negative power detected	
60	负功保护 Driver signal lost from relay board	
61	Relay board的驱动信号丢失 Communication lost between main board and relay board	
62	主板与relay board通讯丢失	
63	Versions are different between main board and relay board 主板与relay board版本不匹配	
71	parellel version is incompatible 并联版本不兼容	
72	O/P current detection abnormal 输出电流侦测异常	
80	CAN lost CAN丢失	
81	HOST lost 主机线丢失	
82	SYN lost 同步信号丢失	
88	BUS Balances overcurrent BUS平衡过流	
^P006HFSpp	n <cr>: Query history fault parameter</cr>	
Response:		
	,BBCCDDEEFFGG,HH,IIIII,JJJJJ,KKKKK,LLLLL,MMMM,NNNN,C	OOOO,PPPP,QQQQ,±RRRR,SSSS,TTTT,UUUU,VVVV,WWW
WW XXXXX Data	X YYYYY 777 aaa hbb ccc <crc><cr> Description</cr></crc>	Remark
Dund	The fault code ID stored in flash	
nn	在Flash最新存储故障代码的ID	nn: 0~8
AA	Fault code 故障代码	
BBCCDD	Time	E AWARD HILANGO
EEFFGG	故障时间	Format: YY-MM-DD, HH:MM:SS

НН	Work mode 工作模式	
IIIII	Solar input voltage 1	I: 0~9, unit: 0.1V
11111	SolarI输入电压 Solar input voltage 2	J: 0~9, unit: 0.1V
	Solar2输入电压 Solar input power 1	
KKKKK	Solar I 输入功率 Solar input power 2	K: 0~9, unit: W
LLLLL	Solar2输入功率	L: 0~9, unit: W
MMMM	AC input voltage R R相AC输入电压	M: 0~9, unit: 0.1V
NNNN	AC input voltage S S相AC输入电压	N: 0~9, unit: 0.1V
0000	AC input voltage T T相AC输入电压	O: 0~9, unit: 0.1V
PPPP	AC input frequency AC输入频率	P: 0~9, unit: 0.01Hz
QQQQ	Battery voltage 电池电压	Q: 0~9, unit: 0.1V
±RRRR	Battery current 电池电流	R: 0~9, unit: 0.1V, +: charge, -: discharge
SSSS	AC output voltage R R相AC输出电压	S: 0~9, unit: 0.1V
TTTT	AC output voltage S S相AC输出电压	T: 0~9, unit: 0.1V
UUUU	AC output voltage T	U: 0~9, unit: 0.1V
VVVV	T相AC输出电压 AC output frequency	V: 0~9, unit: 0.01Hz
wwww	AC输出频率 AC output apperent power R	W: 0~9, unit: VA
	R相AC输出视在功率 AC output apperent power S	X: 0~9, unit: VA
XXXXX	S相AC输出视在功率 AC output apperent power T	·
YYYYY	T相AC输出视在功率 AC output percentage	Y: 0~9, unit: VA
ZZZ	AC输出功率百分比	Z: 0~9, unit: %
aaa	Inner temperature 内部环温	a: 0~9, unit: degree centigrade
bbb	Component Max. temperature 机器内部器件最高温度	b: 0~9, unit: degree centigrade
ccc	External battery temperature 外部电池温度	c: 0~9, unit: degree centigrade
	t时Inv current实时值的读取方式	
	r>: Query energy control status 21AA,B,C,D,E,F,G,H,I <crc><cr></cr></crc>	
Data	Description	Remark
AA	Solar energy distribution of priority Solar能量分配优先级	00: Battery-Load-Grid 01: Load-Battery-Grid 02: Load-Grid-Battery 03:
В	Enable/disable solar charge battery 充电使能	1: enable, 0: disable
С	Enable/disable AC charge battery AC充电使能	1: enable, 0: disable
D	Enable/disable feed power to utility 并网使能	1: enable, 0: disable
Е	Enable/disable battery discharge to loads when solar input normal 当Solar正常的时候,电池放电带载使能	1: enable, 0: disable
F	Enable/disable battery discharge to loads when solar input loss 当Solar异常的时候,电池放电带载使能	1: enable, 0: disable
G	Enable/disable battery discharge to feed power to utility when solar input normal 当Solar正常的时候,电池放电并网使能	1: enable, 0: disable
Н	Enable/disable battery discharge to feed power to utility when solar input loss 当Solar异常的时候,电池放电并网使能	1: enable, 0: disable
I	Enable/disable Q(U) derating funcation	1: enable, 0: disable

^P006GLTHV	/ <cr>: Query AC input long-lime highest average voltage</cr>	
	007AAAA <crc><cr></cr></crc>	
Data	Description	Remark
	AC input long-lime highest average voltage	
AAAA	AC输入平均值长时间过压点	A: 0~9, unit: 0.1V
	•	
^P004FET <cr< td=""><td>>: Query first generated energy saved time</td><td></td></cr<>	>: Query first generated energy saved time	
Response: ^D	013YYYYMMDDHH <crc><cr></cr></crc>	
Data	Description	Remark
YYYY	Year	Y: 0~9
MM	Month	M: 0~9
DD	Day	D: 0~9
НН	Hour	H: 0~9
^P003FT <cr></cr>	: Query wait time for feed power	
Response: ^D	006AAA <crc><cr></cr></crc>	
Data	Description	Remark
AAA	Wait time	A: 0~9, unit: second
	•	
^P005ACCT<	cr>: Query AC charge time bucket	
	查询允许AC充电时间段	
Response: ^D	022AAAA,BBBB,CCCC,DDDD <crc><cr></cr></crc>	
Data	Description	Remark
AAAA	Start time for enable AC charger working	AAAA: HH:MM(hour : minute)
BBBB	Ending time for enable AC charger working	BBBB: HH:MM(hour : minute)
AAAA	Secondary Start time for enable AC charger working	CCCC: HH:MM(hour : minute)
BBBB	Secondary Ending time for enable AC charger working	DDDD: HH:MM(hour : minute)
	7 6 6	,
^P005ACLT<	cr>: Query AC supply load time bucket	
	查询允许AC带载时间段	
Response: ^D	022AAAA,BBBB,CCCC,DDDD <crc><cr></cr></crc>	
Data	Description	Remark
AAAA	Start time for enable AC supply the load	AAAA: HH:MM(hour : minute)
BBBB	Ending time for enable AC supply the load	BBBB: HH:MM(hour : minute)
ББББ	Start time for enable AC supply the load of second AC output (only	DDDD. 1111.WW(nour : minute)
CCCC	for TWIN)	CCCC: HH:MM(hour : minute)
	Ending time for enable AC supply the load of second AC	
DDDD	output (only for TWIN)	DDDD: HH:MM(hour : minute)
	output (only for 1 why)	
^P006FPADI	<cr>: Query feeding grid power calibration</cr>	
1000117125	查询并网校正功率	
Response: ^D	030A,BBBB,C,DDDD,E,FFFF,G,HHHH <crc><cr></cr></crc>	
Data	Description	Remark
A	Feeding grid derection	0: -, 1: +
BBBB	Feeding grid calibration power	n: 0~9, unit: 1W
С	R phase Feeding grid derection	0: -, 1: +
DDDD	R palse Feeding grid calibration power	n: 0~9, unit: 1W
Е	S palse Feeding grid derection	0: -, 1: +
FFFF	S palse Feeding grid defection S palse Feeding grid calibration power	n: 0~9, unit: 1W
G	T phase Feeding grid derection	0: -, 1: +
НННН	T phase Feeding grid defection T phase Feeding grid calibration power	n: 0~9, unit: 1W
пппп	1 phase reeding grid canoration power	II. 0~9, uint. 1 W
^D005EDDE<	- Orang food in marrow footon	
POUSFPPF	r>: Query feed in power factor 查询并网功率因素	
Dagnanas AD	互明升例切坐囚系 206nnn <crc><cr></cr></crc>	
		Damada
Data	Description	Remark
nnn	Feed in power factor	n: 0~9, 090~100 meas +0.90~+1.00,
		190~199 means -0.90~-0.99
△D 0054 : 57	O () () () () () () () () () (E4105)
^P005AAPF<	cr>: Query auto-adjust PF with power information (Only valid for VD	E4105)
	查询自动根据功率调整PF参数(仅用于VDE4105)	
	012a,bbb,ccc <crc><cr></cr></crc>	
Data	Description	Remark
а	Enable/Disable function	0: disable 1: enable
bbb	Start power percentage of auto-adjusting	b: 0~9, unit: %, range: 010~090
ccc	Minmum PF value when power percentage reach 100%	c: 0~9, unit: 0.01, range: 190~199, means -0.90~-0.99
ADOOSD LOG .	er>: Query internal general status	

Data	Description	Remark
AAAA	R Inv current	A: 0~9, unit: 0.1A
BBBB	S Inv current	B: 0~9, unit: 0.1A
CCCC	T Inv current	C: 0~9, unit: 0.1A
DDDD	R AC output current	D: 0~9, unit: 0.1V
EEEE	S AC output current	E: 0~9, unit: 0.1V
FFFF	T AC output current	F: 0~9, unit: 0.1V
GGGG	Master P BUS voltage	G: 0~9, unit: 0.1V
НННН	Master N BUS voltage	H: 0~9, unit: 0.1V
IIII	Slave P BUS voltage	I: 0~9, unit: 0.1V
JJJJ	Slave N BUS voltage	J: 0~9, unit: 0.1V
KKKK	R OP ShareCurr (only for WP 10/12/15KW)	K: 0~9, unit: 0.1A
LLLL	S OP ShareCurr (only for WP 10/12/15KW)	L: 0~9, unit: 0.1A
MMMM	T OP ShareCurr (only for WP 10/12/15KW)	M: 0~9, unit: 0.1A
NNNN	External CT1 Curr	N: 0~9, unit: 0.1A
0000	External CT2 Curr	O: 0~9, unit: 0.1A
PPPP	External CT3 Curr (reserved)	P: 0~9, unit: 0.1A

P005FPRA<cr>: Query feed-in grid reactive power

查询并网无功功率设置

Response: ^D008±nnnn<CRC><cr>

Data	Description	Remark
nnnn	feed-in reactive power	n: 0~9, unit: 1Var, range: -5000~5000

^P005MAR1<cr>: Query machine adjustable range1

Response:

^D114AAAA,BBBB,CCCC,DDDD,EEEE,FFFF,GGGG,HHHH,IIII,JJJJ,KKKK,LLLL,MMMM,NNNN,0000,PPPP,QQQQ,RRRR,SSS,TTT,U,V,WWW,XXXX<CRC><cr>

	X <crc><cr></cr></crc>	
Data	Description	Remark
AAAA	The upper limit of AC input highest recover voltage for feed power AC输入可并网最高恢复电压可设值上限	A: 0~9, unit: 0.1V 2622
BBBB	The lower limit of AC input highest recover voltage for feed power AC输入可并网最高恢复电压可设值下限 B: 0~9, unit: 0.1V 2350	
CCCC	The upper limit of AC input lowest recover voltage for feed power AC输入可并网最低恢复电压可设值上限	C: 0~9, unit: 0.1V 2250
DDDD	The lower limit of AC input lowest recover voltage for feed power AC输入可并网最低恢复电压可设值下限	D: 0~9, unit: 0.1V 1840
EEEE	power The Second order lower limit of AC input inguest voltage for feed power The Second order lower limit of AC input inguest voltage for feed	E: 0~9, unit: 0.1V 2900
FFFF	power	F: 0~9, unit: 0.1V 2622
GGGG	निर्देशकार्य जिल्ही प्रकृतिकार्य जिल्हा प्रकृतिकार जिल्हा प्रकृतिकार जिल्हा प्रकृतिकार जिल्हा	G: 0~9, unit: 0.1V 1840
нннн	power The Second order tower firmt of AC input towest voltage for reed power The Second order upper timit of AC input ingnest voltage protection	H: 0~9, unit: 0.1V 0460
IIII	time	I: 0~9, unit: 0.05S 0250
JJJJ	The Second order tower think or AC hiput highest vontage protection time	I: 0~9, unit: 0.05S 0003
KKKK	16 Second order upper in interior 不是 in pur lowest vonage protection time	K: 0~9, unit: 0.05S 0250
LLLL	The Second order to Well think of 不设施 put lowest voltage protection time	L: 0~9, unit:0.05S 0003
MMMM	The upper limit of AC input highest voltage protection time AC输入最高电压保护时间可设值上限	M: 0~9, unit: 0.1S 5000
NNNN	The lower limit of AC input highest voltage protection time AC输入最高电压保护时间可设值下限	N: 0~9, unit: 0.1S 0003
0000	The upper limit of AC input lowest voltage protection time AC输入最低电压保护时间可设值上限	O: 0~9, unit: 0.1S 5000
PPPP	The lower limit of AC input lowest voltage protection time AC输入最低电压保护时间可设值下限	P: 0~9, unit: 0.1S 0003
QQQQ	The upper limit of AC input frequency derate point AC输入频率降额可设值上限	Q: 0~9, unit: 0.01Hz 5200(WP LV is 6200)
RRRR	The lower limit of AC input frequency derate point AC输入频率降额可设值下限	R: 0~9, unit: 0.01Hz 5010(WP LV is 6010)
SSS	The upper limit of AC input frequency derate gradient AC输入频率降额斜率可设值上限	S: 0~9, unit: %/Hz 100
TTT	The lower limit of AC input frequency derate gradient AC输入频率降额斜率可设值上限	T: 0~9, unit: %/Hz 010

U	The upper limit of AC input frequency delay trigger time AC输入频率延时触发可设值上限	U: 0~2, unit: 1S 2
V	The lower limit of AC input frequency delay trigger time AC输入频率延时触发可设值下限 V: 0~2, unit: 1S 0	
I \\\/ \\\/ \\\/ \\\/	The upper limit of AC input voltage 10 Min mean protection AC输入电压10分钟保护可设值上限	W: 0~9, unit: 0.1V 2760(WP LV is 1400)
XXXX	The lower limit of AC input voltage 10 Min mean protection AC输入电压10分钟保护可设值下限	X: 0~9, unit: 0.1V 2300(WP LV is 850)
ADDOCHADO CONTRACTOR OF THE CO		

^P005MAR2<cr>: Query machine adjustable range2

Response

*D132AAAA,BBBB,CCCC,DDDD,EEEE,FFFF,GGGG,HHHH,IIII,JJJJ,KKKK,LLLL,MMMM,NNNN,0000,PPPP,QQQQ,RRRR,SSSS,TTTT,UU UU,VVVV,WWWW,XXXX,YYYY,ZZZZ<CRC><cr>

UU,VVV,WWWW,XXXX,YYYY,ZZZZ <crc><cr></cr></crc>			
Data	Description The upper limit of AC input nignest recover frequency for feed	Remark	
0AAAA	power A: 0~9, unit: 0.01Hz 5200 16e lower infill or A性 偏矩 neguency for reed		
1BBBB	power B: 0~9, unit: 0.01Hz 5010		
2CCCC	निर्द्धिकृत मानि है। इस निर्माश्वर स्टिप्टिंग requency for reed power निर्द्धिक के निर्माशिक स्टिप्टिंग के निर्देधिक स्टिप्टिंग requency for reed	C: 0~9, unit: 0.01Hz 4990	
3DDDD	power The Second order upper firmt of AC input linguest frequency for feed	D: 0~9, unit: 0.01Hz 4750	
4EEEE	The Second order upper limit of AC input ingless frequency of feed power AC	E: 0~9, unit: 0.01Hz 5500	
5FFFF	The Second order lower limit of AC input highest frequencyfor feed power AC输入可并网最高二阶频率可设值下限	F: 0~9, unit: 0.01Hz 5200	
6GGGG	The Second order upper limit of AC input lowest frequency for feed power AC输入可并网最低二阶频率可设值上限	G: 0~9, unit: 0.01Hz 4750	
7НННН	The Second order lower limit of AC input lowest frequency for feed power AC输入可并网最低二阶频率可设值下限	H: 0~9, unit: 0.01Hz 4500	
8IIII	The Second order upper limit of ACinput highest frequency protection time AC输入最高二阶电压保护时间可设值上限	I: 0~9, unit: 0.05S 0250	
9]]]]]	The Second order lower limit of ACinput highest frequency protection time AC输入最高二阶电压保护时间可设值下限	I: 0~9, unit: 0.05S 0003	
10KKKK	The Second order upper limit of ACinput lowest frequency protection time AC输入最低二阶电压保护时间可设值上限	K: 0~9, unit: 0.05S 0250	
11LLLL	The Second order lower limit of ACinput lowest frequency protection time AC输入最低二阶电压保护时间可设值下限	L: 0~9, unit:0.05S 0003	
12MMMM	The upper limit of AC input highest frequency protection time AC輸入最高电压保护时间可设值上限	M: 0~9, unit: 0.1S 5000	
13NNNN	The lower limit of AC input highest frequency protection time AC输入最高电压保护时间可设值下限	N: 0~9, unit: 0.1S 0003	
140000	The upper limit of AC input lowest frequency protection time AC输入最低电压保护时间可设值上限	O: 0~9, unit: 0.1S 5000	
15PPPP	The lower limit of AC input lowest frequency protection time AC输入最低电压保护时间可设值下限	P: 0~9, unit: 0.1S 0003	
16QQQQ	The upper limit of AC input highest Max reactive power AC输入最高无功可设值上限	Q: 0~9, unit: 1Var 5000	
17RRRR	The AC input lowest Max reactive power AC输入最高无功可设值下限	R: 0~9, unit: 1Var 3000	
18SSSS	The upper limit of AC input volt1 derate point AC输入最高电压1降额点可设值上限	S: 0~9, unit: 0.1V 2300	
19TTTT	The lower limit of AC input volt1 derate point AC输入最高电压1降额点可设值下限	T: 0~9, unit: 0.1V 2000	
20UUUU	The upper limit of AC input volt2 derate point AC输入最高电压2降额点可设值上限	U: 0~9, unit: 0.1V 2300	
21VVVV	The lower limit of AC input volt2 derate point AC输入最高电压2降额点可设值下限	V: 0~9, unit: 0.1V 2000	
22WWWW	The upper limit of AC input volt3 derate point AC输入最高电压3降额点可设值上限	W: 0~9, unit: 0.1V 2622	
23XXXX	The lower limit of AC input volt3 derate point AC输入最高电压3降额点可设值下限	X: 0~9, unit: 0.1V 2300	

24YYYY	The upper limit of AC input volt4 derate point AC输入最高电压4降额点可设值上限	Y: 0~9, unit: 0.1V 2622
25ZZZZ	The lower limit of AC input volt4 derate point AC输入最高电压4降额点可设值下限 Z: 0~9, unit: 0.1V 2300	
^P005MAR3<	RC-個人取同内型 特性の思り 反直 下降 Cer>: Query machine adjustable range3	
	43AAAA,BBBB,CCCC,DDDD,EEEE,FFFF,GGGG,HHHH<	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Data	Description	Remark
AAAA0	AC input highest second order voltage for feed power AC输入可并网二阶最高电压	A: 0~9, unit: 0.1V 2697
BBBB1	AC输入可开网—阶最低电压	
CCCC2	AC input highest second order frequency for feed power	
DDDD3	AC input lowest second order frequency for feed power AC输入可并网二阶最低频率	D: 0~9, unit: 0.1V 4700
EEEE4	AC input highest back voltage for feed power AC输入可并网最高恢复电压	E: 0~9, unit: 0.01Hz 2620
FFFF5	AC input lowest back voltage for feed power AC输入可并网最低恢复电压	F: 0~9, unit: 0.01Hz 1842
GGGG6	AC input highest back frequency for feed power AC输入可并网最高恢复频率	G: 0~9, unit: 0.01Hz 5198
НННН7	AC input lowest back frequency for feed power AC输入可并网最低恢复频率	H: 0~9, unit: 0.01Hz 4752
	Query grid volt protect查询市电电压保护(查询二阶过压点和-	一阶二阶过欠压保护时间)
	032aaaa,bbbb,cccc,dddd,eeee,ffff <crc><cr></cr></crc>	
Data	Description	
aaaa	Second order overvoltage point	a: 0~9, unit: 0.1V
bbbb	Second order underoltage point	b: 0~9, unit: 0.1V
сссс	Second order overvoltage protection time	c: 0~9, unit: 0.02S
dddd	Second order undervoltage protection time	d: 0~9, unit: 0.02S
eeee	Frist order overvoltage protection time	e: 0~9, unit: 0.02S
ffff	Frist order undervoltage protection time	f: 0~9, unit: 0.02S
	Query grid frequency protect查询市电频率保护(查询二阶过频	点和一阶二阶过欠频保护时间)
	032aaaa,bbbb,cccc,dddd,eeee,ffff <crc><cr></cr></crc>	
Data	Description	
aaaa	Second order overfrequency point	a: 0~9, unit: 0.01Hz
bbbb	Second order underfrequency point	b: 0~9, unit: 0.01Hz
cccc	Second order overvfrequency protection time	c: 0~9, unit: 0.02S
dddd	Second order underfrequency protection time	d: 0~9, unit: 0.02S
eeee	Frist order overfrequency protection time	e: 0~9, unit: 0.02S
ffff ADOMAGED <	Frist order underfrequency protection time	f: 0~9, unit: 0.02S
	r>Query Over frequency drop rated power过频降额 013aaaa.bb.c <crc><cr></cr></crc>	
Data	Description	
aaaa	Drop rated power point	a: 0~9, unit: 0.01Hz
bbbb	Drop rated power slope	b: 0-9, unit 1%/Hz
С	Trigger delay time	c: 0-9,unit 18
	r>Query Voltage and reactive power response 电压无功响应	P. 0-23um 10
	027±aaaa,bbbb,cccc,dddd,eeee <crc><cr></cr></crc>	
Data	Description	
aaaa	Maximum reactive power response	a: 0~9, unit: 1Var
bbbb	Reduce rated power point1	b: 0-9,unit 0.1V
cccc	Reduce rated power point2	c: 0-9,unit 0.1V
dddd	Reduce rated power point3	d: 0-9,unit 0.1V
eeee	Reduce rated power point4	e: 0-9,unit 0.1V
^P005BTEQ<	cr>: Query Battery EQ Information 本語 は アログ 自	
Dacmana: AD	查询电池EQ信息	
	027a,bbbb,ccc,ddd,eee,fff,g <crc><cr></cr></crc>	Dalv
Data	Description FO Function Fuchle on Pinchle	Remark
a hhhh	EQ Function Enable or Disable	a:0or1 0: Disable , 1: Enable
ccc	EQ Voltage EQ Time	b: 0~9,unit: 0.1V The set range:480~600 c: 0~9, unit: 1Min The set range:5~900Min (Increment of each click is 5min.)
ddd	EQ Timeout	d: 0~9, unit: 1Min The set range:5~900Min (Increment of each click is 5min.)
		CHOK IS JIHHI.)

F	T	a: u~9, unit: 1Day I ne set range:u~90Day(increment of each	
eee	Equalization interval	click	
	*	is 1 day)	
fff	Reserve	0	
g	Equalization states	f:0or1 0: EQ off, 1: EQ on	
ADOUACLET COM	CVT'		
7004C V 1 <c< td=""><td>>: Query CV Time 查询恒压充电时长</td><td></td></c<>	>: Query CV Time 查询恒压充电时长		
Response: ADO	担明国法定电明 区 107aaaa <crc><cr></cr></crc>		
Data	Description	Remark	
aaaa	CV time	a: 0~9.unit: 1min	
aaaa	C v time	a. 0-7, umt. 111111	
^P004AFD <cr></cr>	>: Query AC output coupled frequency modulation gradient 查询AC输出耦合调频曲线		
Response: ^D0	006aaa <crc><cr></cr></crc>		
Data	Description	Remark	
aaa	AC output coupled frequency modulation gradient	aaaa: 5-100,unit: 1%	
	Query UL certification parameters 查询UL法规参数		
Response: ^D0		k,lllll,mmmmm,nnnnn,ooooo,pppp,qqqq,rrrr,ssss,tttt,uuuu <crc><cr></cr></crc>	
Data	Description	Remark	
aaaa	MaxReactivePower	0-3000,unit: 1var	
	最大无功功率	<u> </u>	
bbbb	QU低压降额梯度1	0-3000,unit: 1var 0-3000,unit: 1var	
cccc dddd	QU低压降额梯度2	0-3000,unit: 1var 0-3000,unit: 1var	
	QU高压降额梯度 QU降额参考电压	^P004GOV(bbbb-aaaa),unit: 0.1V	
ffff	QU控制二阶低压	800-gggg,unit: 0.1V	
	QU控制一阶低压	ffff-eee,unit: 0.1V	
gggg hhhh	QU控制一阶高压	eeee-iiii,unit: 0.1V	
iiii	QU控制二阶高压	hhhh-^P004GOV(aaaa),unit: 0.1V	
jjjjj	PQ控制一阶功率点	0-kkkk,unit: 1W	
kkkkk	PQ控制二阶功率点	jjjj-IllII,unit: 1W	
11111	PQ控制三阶功率点	kkkk^P003MD (B) ,unit: 1W	
mmmmm	PQ控制一阶无功功率点		
nnnnn	PQ控制二阶无功功率点	mmmm-ooooo,unit: 1Var	
00000	PQ控制三阶无功功率点	nnnnn-^P003MD (B/2) ,unit: 1Var	
ррррр	PU Derating active power point PU控制有功功率点	^P003MD(+BB),unit: 1W	
qqqq	PU Drop rated power voltage point1 PU控制一阶电压点	1200-rrrr,unit: 0.1V	
rrrr	PU Drop rated power voltage point2 PU控制二阶电压点	qqqq-1400,unit: 0.1V	
ssss	reactive power response time UL无功响应时间	0-5000, unit: 0.1S 0-5000, unit: 0.08S(QU/PQ enable, ssss=1)	
	active power response time		
tttt	UL有功功率响应时间 Low frequency Drop rated power point	0-5000,unit: 0.1V	
uuuu	低频降额频率点	4800-6000,unit:0.01HZ	
	Set com	mands	
^S005LONn <c< td=""><td>r>: Set enable/disable machine supply power to the loads 机器带载使能</td><td>manus</td></c<>	r>: Set enable/disable machine supply power to the loads 机器带载使能	manus	
Response: ^1<	CRC> <cr> or ^0<crc><cr></cr></crc></cr>		
Data	Description	Remark	
n	Enable/disable	0: disable, 1: enable	
^1	Accept command		
^1 ^0			
^0	Accept command Refuse command		
^0 ^S004Pmn <cr></cr>	Accept command Refuse command Set enable/disable status		
^0 ^S004Pmn <cr>Response: ^1<0</cr>	Accept command Refuse command >: Set enable/disable status CRC> <cr> or ^0<crc><cr></cr></crc></cr>		
^0 ^S004Pmn <cr> Response: ^1<0 Data</cr>	Accept command Refuse command >: Set enable/disable status CRC> <cr> or ^0<crc><cr> Description</cr></crc></cr>	Remark Franchis Deficible	
^0 ^S004Pmn <cr>Response: ^1<0</cr>	Accept command Refuse command See the enable disable status CRC> <cr> or ^0<crc><cr> Description enable/disable</cr></crc></cr>	E: enable, D: disable	
^0 ^S004Pmn <cr> Response: ^1<0 Data</cr>	Accept command Refuse command >: Set enable/disable status CRC> <cr> or ^0<crc><cr> Description enable/disable A</cr></crc></cr>	E: enable, D: disable Mute buzzer beep	
^0 ^S004Pmn <cr> Response: ^1<0 Data</cr>	Accept command Refuse command Set enable/disable status CRC> <cr> or ^0<crc><cr> Description enable/disable A B</cr></crc></cr>	E: enable, D: disable Mute buzzer beep Mute buzzer beep in standby mode	
^0 ^S004Pmn <cr> Response: ^1<0 Data</cr>	Accept command Refuse command Set enable/disable status CRC> <cr> or ^0<crc><cr> Description enable/disable A B C</cr></crc></cr>	E: enable, D: disable Mute buzzer beep Mute buzzer beep in standby mode Mute buzzer beep only on battery discharged status	
^0 ^S004Pmn <cr> Response: ^1<0 Data</cr>	Accept command Refuse command Set enable/disable status CRC> <cr> or ^0<crc><cr> Description enable/disable A B C D</cr></crc></cr>	E: enable, D: disable Mute buzzer beep Mute buzzer beep in standby mode Mute buzzer beep only on battery discharged status Generator as AC input	
^0 ^S004Pmn <cr> Response: ^1<0 Data</cr>	Accept command Refuse command Set enable/disable status CRC> <cr> or ^0<crc><cr> Description enable/disable A B C</cr></crc></cr>	E: enable, D: disable Mute buzzer beep Mute buzzer beep in standby mode Mute buzzer beep only on battery discharged status	

ī	[a	D
	G	De-rating power for Grid voltage
	Н	De-rating power for Grid frequency
	I	BMS battery connect
	ī	Low frequency De-rating power
	K	LVRT(Low voltage ride through)
	L	reserved
n	M	HVRT(High voltage ride through)
	N	Charge power limit(Only for VDE 4105)
	0	External CT RLY
	p	Ac output coupling
	-	
	Q	Low frequency derating
	R	Over frequency derating
	S	Allow opening of second output
	T	GFCI Chk
	U	RAPID
	V	InvDCCurrCntl
	<u>-</u>	Allow opening of Gen intput(it will be disable when sent
	W	^S004PDS)
		Rapid -shutdown Cnt En
	X	
A 1	1	Rapid shutdown使能
^1	Accept command	
^0	Refuse command	
	ymmddhhffss <cr>: Set date time</cr>	
Response: ^1	<crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	
Data	Description	Remark
уу	Year	y: 0~9
mm	Month	m: 0~9
dd	Day	d: 0~9
hh	Hour	h: 0~9
ff	Minute	f: 0~9
	Second	s: 0~9
SS		S: 0~9
^1	Accept command	
^0	Refuse command	
	/nnnn <cr>: Set AC input highest voltage for feeding power 设置最高并网电压 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc></cr>	
Data	Description	Remark
nnnn	AC input highest voltage	n: 0~9, unit: 0.1V
^1	Accept command	
^0	Refuse command	
	nnnn <cr>: Set AC input lowest voltage for feeding power 设置最低并网电压</cr>	
Response: ^1	<crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	
Data	Description	Remark
nnnn	AC input lowest voltage	n: 0~9, unit: 0.1V
^1		n. v-2, unit. 0.1 v
^1	Accept command Refuse command	
^0	Refuse command	
	nnnn <cr>: Set AC input highest frequency for feeding power 设置最高并网频率</cr>	
	<crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	
Data	Description	Remark
nnnn	AC input highest frequency	n: 0~9, unit: 0.01Hz
^1	Accept command	
^0	Refuse command	
	nnnn <cr>: Set AC input lowest frequency for feeding power 设置最低并网频率</cr>	
	<crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	P 1
Data	Description	Remark
nnnn	AC input lowest frequency	n: 0~9, unit: 0.01Hz
^1	Accept command	
^0	Refuse command	
	nnnnnn <cr>: Set output max power</cr>	
Response: ^1	<crc>cr> or ^0<crc>cr></crc></crc>	

Data	Description	Remark	
nnnnn	output max power	n: 0~9, unit: W	
<u>111111111111111111111111111111111111</u>	Accept command	n. 0-5, umt. w	
<u>^0</u>	Refuse command		
	icordise command	I	
	nnnn <cr>: Set max power of feeding grid 设置最大并网功率</cr>		
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>		
Data	Description	Remark	
nnnnn	max power	n: 0~9, unit: W	
^1	Accept command		
^0	Refuse command	1	
^S010SIHVnnı	nnn <cr>: Set Solar input highest voltage 设置最高Solar输入电压</cr>		
Response: ^1<0	CRC> <cr> or ^0<crc><cr></cr></crc></cr>		
Data	Description	Remark	
nnnnn	Solar input highest voltage	n: 0~9, unit: 0.1V	
^1	Accept command		
^0	Refuse command		
	n <cr>: Set Solar input lowest voltage 设置最低Solar输入电压</cr>		
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>		
Data	Description	Remark	
nnnn	Solar input lowest voltage	n: 0~9, unit: 0.1V	
^1	Accept command		
^0	Refuse command		
	Vnnnn <cr>: Set Solar input highest MPPT voltage 设置最高MPPT电压 CRC><cr> or ^0<crc><cr></cr></crc></cr></cr>		
Data		Damada	
nnnn	Description Solar input highest MPPT voltage	Remark n: 0~9, unit: 0.1V	
^1	Accept command	II. 0~9, uiiit. 0.1 v	
^0	Refuse command		
	retuse command	I .	
	/nnnn <cr>: Set Solar input lowest MPPT voltage 设置最低MPPT电压</cr>		
Response: ^1<0	CRC> <cr> or ^0<crc><cr></cr></crc></cr>		
Data	Description	Remark	
nnnn	Solar input lowest MPPT voltage	n: 0~9, unit: 0.1V	
^1	Accept command		
^0	Refuse command		
	cr>: Set LCD sleep wait time 设置LCD休眠等待时间		
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	D I	
Data	Description	Remark	
nn ^1	LCD sleep wait time	nn: 00, 01, 02, 10, 20 for selection, unit : 30second. 00 means LCD always light	
^1	Accept command Refuse command		
^S010MCHGC	^S010MCHGCnnnn< <r>>: Set battery maximum charge current 设置电池最大充电电流</r>		
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	D amounts	
Data	Description Potters maximum charge output	Remark	
nnnn ^1	Battery maximum charge current Accept command	n: 0~9, unit: 0.1A	
^1	Refuse command	+	
0	refuse confinant	1	
^S015MCHGV	/mmmm,nnnn <cr>: Set battery maximum charge voltage 设置电池最大充电电压</cr>		
Response: ^1<0	CRC> <cr> or ^0<crc><cr></cr></crc></cr>		
Data	Description	Remark	
mmmm	Battery constant charge voltage(C.V.)	m: 0~9, unit: 0.1V	
nnnn	Battery float charge voltage	n: 0~9, unit: 0.1V	
^1	Accept command		

^0	Refuse command	
^S010GLTHVi	nnnn <cr>: Set AC input long-time highest average voltage</cr>	
D 01 4	设置AC输入长时间过压点	
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	D
Data	Description	Remark
nnnn	AC input long-time highest average voltage	n: 0~9, unit: 0.1V
^1 ^0	Accept command Refuse command	
10	Refuse command	
^\$025BATDV	aaaa,bbbb,cccc,dddd <cr>: Set battery discharge voltage</cr>	
3023BATD V	设置电池放电相关电压点	
Response: ^1<0	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaaa	Battery under voltage	n: 0~9, unit: 0.1V
bbbb	Battery under back voltage	n: 0~9, unit: 0.1V
cccc	Battery weak voltage in hybrid mode	n: 0~9, unit: 0.1V
dddd	Battery weak back voltage in hybrid mode	n: 0~9, unit: 0.1V
^1	Accept command	
^0	Refuse command	
^S021BATDSa	aaa,bbb,ccc,ddd <cr>: Set battery discharge SOC(only for WP 30K)</cr>	·
	设置电池放电相关SOC点	
Response: ^1<0	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaa	Battery under SOC	0-80%, unit: 1%
bbb	Battery under back SOC	0-80%, unit: 1%
ccc	Battery weak SOC in hybrid mode	5-95%, unit: 1%
ddd	Battery weak back SOC in hybrid mode	5-100%, unit: 1%
^1	Accept command	
^0	Refuse command	
^S025BATDV	2aaaa,bbbb,cccc,dddd <cr>: Set battery discharge voltage of second A</cr>	C output
	设置第二路AC输出的电池截止电压	
Response: ^1<0	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaaa	Battery under voltage for 2rd output	n: 0~9, unit: 0.1V
bbbb	Battery under-back voltage for 2rd output	n: 0~9, unit: 0.1V
cccc	reserved	n: 0~9, unit: 0.1V
dddd	reserved	n: 0~9, unit: 0.1V
^1	Accept command	
^0	Refuse command	
AGOOGGED		
^S006SEPnn<0	cr>: Set Solar energy distribution of priority 设置Solar能量分配优先级	
Damanaa A1<	図直Solar能里が配化光線 CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
		Damode
Data	Description	Remark
l _{nn}	Solar energy distribution of priority	00: Battery-Load-Grid 01: Load-Battery-Grid
nn	Solar energy distribution of priority	02: Load-Grid-Battery
^1	A	02. Load-Grid-Battery
^1 ^0	Accept command Refuse command	
0	Refuse command	
^S005EDmn <c< td=""><td>er>: Set energy distribution 设置能量分配</td><td></td></c<>	er>: Set energy distribution 设置能量分配	
Response: ^1<0	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
	A	Enable/disable solar charge battery
	В	Enable/disable AC charge battery
	С	Enable/disable feed power to utility
	D.	Enable/disable battery discharge to loads when solar input
	D	normal
	E	Enable/disable battery discharge to loads when solar input loss
m		Enable/disable battery discharge to feed power to utility when
	F	solar input normal
		Enable/disable battery discharge to feed power to utility when
	G	solar input loss
		*
	H	Enable/disable Q(U) derating funcation

L

n	Enable/disable	1: enable, 0: disable
^1	Accept command	
^0	Refuse command	

^S017BCAaaaa,bbb,cccc<cr>: Set battery charger application in floating charging 设置浮充状态下电池充电器相关应用 Response: ^1<CRC><cr> or ^0<CRC><cr>

Data	Description	Remark	
2222	Battery stop charger current level in floating charging 浮充状态下电池停止充电的电流点	a: 0~9, unit: 0.1A, range: 0~500	
Ihhh	Keep charged time of battery catch stop charger current level 电池达到停充电电流点后关闭充电器的等待时间 b: 0~9, unit: Minute, range: 0~999		
cccc	Battery voltage of recover to charge when battery stop charger in floating charging		
^1	Accept command		
^0	Refuse command		

^S006DMnnn<cr>: Set machine model

Response: ^1<CRC><cr> or ^0<CRC><cr>

Data Description		Remark
	050	Hybrid type VDE certification
	051	Hybrid type AS4777 certification
	052	Hybrid type DK certification
	053	Hybrid type RD1663 certification
	054	Hybrid type G83 certification
	055	Hybrid type Taiwan certification
	056	Hybrid type USH certification
	057	Hybrid type USL certification
	058	Hybrid type VDE4105 certification
	059	Hybrid type Korea certification
<u> </u>	060	Hybrid type HongSun certification
		, ,,
	061	Hybrid type Sweden certification
	062	Hybrid type NRS097 certification
	063	Hybrid type Indian certification
	064	Hybrid type EN50438 certification
	065	Hybrid type EN50438(Czech) certification
	066	Hybrid type EN50438(DanMark) certification
	067	Hybrid type EN50438(Finland) certification
	068	Hybrid type EN50438(Ireland) certification
	069	Hybrid type EN50438(Norway) certification
	70	Hybrid type CEI-021 certification
	71	Hybrid type G59 certification
	72	Hybrid type NZLD certification
	73	Hybrid type Cyprus certification
	74	Hybrid type TOR certification
	75	Hybrid type EN50549 certification
	76	Hybrid type G98 certification
	77	Hybrid type IEEE1547 certification
	100	Grid type VDE certification
nnn	101	Grid type AS4777 certification
	102	Grid type DK certification
	103	Grid type RD1663 certification
	104	Grid type G83 certification
	105	Grid type Taiwan certification
	106	Grid type USH certification
	107	Grid type USL certification
	108	Grid type VDE4105 certification
	109	Grid type Korea certification
	110	Grid type HongSun certification
	111	Grid type Sweden certification
	112	Grid type NRS097 certification
	113	Grid type Indian certification
	113	Grid type Indian certification Grid type EN50438 certification
	115	Grid type EN50438 (Czech) certification Grid type EN50438 (Czech) certification
-		
	116	Grid type EN50438(DanMark) certification
	117	Grid type EN50438(Finland) certification

I	118	Grid type EN50438(Ireland) certification
	119	Grid type EN50438(Norway) certification
	120	Grid type CEI-021 certification
	121	Grid type G59 certification
	122	Grid type NZLD certification
	123	Grid typeCyprus certification
	124	Grid typeTOR certification
	125	Grid type EN50549 certification
	126	Grid type G98 certification
	127	Grid type IEEE1547 certification
	150	Off Grid type
	151	Off Grid 3 type
^1	Accept command	
^0	Refuse command	
	•	
^S003PF <c< td=""><td>r>: Set changeable parameter restore to default value 恢复默认值</td><td></td></c<>	r>: Set changeable parameter restore to default value 恢复默认值	
Response: ^	1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	
Data	Description	Remark
^1	Accept command	
^0	Refuse command	
	cr>: Set AC output frequency to be 50Hz	
Response: ^	1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	
Data	Description	Remark
^1	Accept command	
^0	Refuse command	
	cr>: Set AC output frequency to be 60Hz	
Response: ^	1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	
Data	Description	Remark
^1	Accept command	
^0	Refuse command	
	n <cr>: Set AC output rated voltage</cr>	
Response: ^	1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	
		Remark
Response: ^	1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400
Response: ^ Data nnnn	CI <crc><cr> or ^0<crc><cr> Description voltage</cr></crc></cr></crc>	
Response: ^ Data nnnn ^1	CRC>cr> or ^0 <crc>cr> Description voltage Accept command </crc>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400
Response: ^ Data nnnn	CI <crc><cr> or ^0<crc><cr> Description voltage</cr></crc></cr></crc>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400
Response: ^Data nnnn ^1 ^0	Description voltage Accept command Refuse command n <cr>: Set wait time for feed power</cr>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400
Response: ^Data nnnn ^1 ^0 ^S006FTnn	Description voltage Accept command Refuse command n <cr>: Set wait time for feed power 设置并网等待时间</cr>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400
Response: ^ Data nnnn ^1 ^0 ^S006FTnn Response: ^	Description voltage Accept command Refuse command n <cr>: Set wait time for feed power 设置并网等待时间 1<crc><cr> or ^0<crc><cr></cr></crc></cr></crc></cr>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV
Response: ^ Data nnnn ^1 ^0 ^S006FTnn Response: ^ Data	Description voltage Accept command Refuse command n <cr>: Set wait time for feed power 设置并网等待时间 'l<crc><cr> Or '0<crc><cr> Description</cr></crc></cr></crc></cr>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark
Response: ^ Data nnnn ^1 ^0 ^S006FTnn Response: ^ Data nnnn	Description voltage Accept command Refuse command n <cr></cr>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV
Response: ^ Data nnnn ^1 ^0 ^S006FTnn Response: ^ Data nnnn ^1	Description voltage Accept command Refuse command n <r> 'CI < CRC > cr > or ^0 < CRC > cr > Description voltage Accept command Refuse command n<r> Set wait time for feed power 设置并网等待时间 CI < CRC > cr > or ^0 < CRC > cr > Description Wait time Accept command</r></r>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark
Response: ^ Data nnnn ^1 ^0 ^S006FTnn Response: ^ Data nnnn	Description voltage Accept command Refuse command n <cr></cr>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark
Response: ^ Data nnnn ^1 ^0 ^S006FTnn Response: ^ Data nnnn ^1 ^1 ^0	Description voltage Accept command Refuse command n <r> 'CI < CRC > cr > or ^0 < CRC > cr > Description voltage Accept command Refuse command n<r> Set wait time for feed power 设置并网等待时间 CI < CRC > cr > or ^0 < CRC > cr > Description Wait time Accept command</r></r>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark
Response: ^ Data nnnn ^1 ^0 ^S006FTnn Response: ^ Data nnnn ^1 ^1 ^0	Description voltage Accept command Refuse command n <r> 'CI < CRC > cr > or ^0 < CRC > cr > Accept command Refuse command n<r> Set wait time for feed power 设置并网等待时间 'CI < CRC > cr > or ^0 < CRC > cr > Description Wait time Accept command Refuse command</r></r>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^*S024ACC	Description voltage Accept command Refuse command n <r> N<r> N<r> El Accept command Refuse command Refuse command N<r n<<="" n<r="" td=""><td>unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark</td></r></r></r></r>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^S024ACC' Response: ^	Description voltage Accept command Refuse command n <cr>: Set wait time for feed power 设置并网等待时间 cl<crc><cr> or ^0<crc><cr> Description Wait time Accept command Refuse command Refuse command Wait time Accept command Refuse command Refuse command Refuse command Cl<crc><cc,ddd<cr>: Set AC charge time bucket 设置允许AC充电时间段</cc,ddd<cr></crc></cr></crc></cr></crc></cr>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^*S024ACC	Description voltage Accept command Refuse command Refuse command N <cr>: Set wait time for feed power 设置并网等待时间 CRC><r> or ^0<crc><cr> Description Wait time Accept command Refuse command Refuse command Refuse command Caaaa,bbbb,cccc,dddd<r> Taaaa,bbbb,cccc,dddd<rr> CRC><cr> Or ^0<crc><cr> Description Wait time Accept command Refuse command</cr></crc></cr></rr></r></cr></crc></r></cr>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark n: 0~9, unit: second
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^S024ACC' Response: ^Data	Description voltage Accept command Refuse command Refuse command N <cr>: Set wait time for feed power 设置并网等待时间 CCRC><cr> or ^0<crc><cr> Description Wait time Accept command Refuse command Refuse command Refuse command Start time bucket 设置允许AC充电时间段 CCRC><cr> Description Start time for enable AC charger working</cr></cr></crc></cr></cr>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark n: 0~9, unit: second Remark aaaa: HH:MM(hour : minute)
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^S024ACC' Response: ^Data aaaa	Description voltage Accept command Refuse command Necrest wait time for feed power 设置并网等待时间 CCRC> <cr> or ^0<crc><cr> Description Wait time Accept command Refuse command Refuse command Wait time Accept command Refuse command Refuse command Refuse command Start time for enable AC charger working Ending time for enable AC charger working</cr></crc></cr>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark n: 0~9, unit: second Remark
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^S024ACC' Response: ^Data aaaa bbbb	Description voltage Accept command Refuse command Necrest wait time for feed power 设置并网等待时间 CCRC> <cr> Description Wait time Accept command Refuse command Refuse command CRCS Cr> Description Wait time Accept command Refuse command Refuse command Refuse command CRCS Cr> CRCS CRCS Cr> CRCS CRCS CRCS CRCS CRCS CRCS CRCS CRCS</cr>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark n: 0~9, unit: second Remark aaaa: HH:MM(hour : minute) bbbb: HH:MM(hour : minute) cccc: HH:MM(hour : minute)
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^S024ACC' Response: ^Data aaaa bbbb aaaa	Description voltage Accept command Refuse command Necrest wait time for feed power 设置并网等待时间 PI <crc><cr> Description Wait time Accept command Refuse command Refuse command Wait time Accept command Refuse command Refuse command Refuse command Secondary Start time for enable AC charger working Secondary Ending time for enable AC charger working Secondary Ending time for enable AC charger working</cr></crc>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark n: 0~9, unit: second Remark aaaa: HH:MM(hour : minute) bbbb: HH:MM(hour : minute)
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^S024ACC' Response: ^Data aaaa bbbb aaaa bbbb	Description voltage Accept command Refuse command Necrest wait time for feed power 设置并网等待时间 CCRC> <cr> Description Wait time Accept command Refuse command Refuse command CRCS Cr> Description Wait time Accept command Refuse command Refuse command Refuse command CRCS Cr> CRCS CRCS Cr> CRCS CRCS CRCS CRCS CRCS CRCS CRCS CRCS</cr>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark n: 0~9, unit: second Remark aaaa: HH:MM(hour : minute) bbbb: HH:MM(hour : minute) cccc: HH:MM(hour : minute)
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^S024ACC' Response: ^Data aaaa bbbb aaaa bbbb	Description voltage Accept command Refuse command Necrest set wait time for feed power 设置并网等待时间 Pl <crc><cr> or ^0<crc><cr> Description Wait time Accept command Refuse command Taaaa,bbbb,cccc,dddd<cr>: Set AC charge time bucket 设置允许AC充电时间段 Pl<crc><cr> or ^0<crc><cr> Description Start time for enable AC charger working Ending time for enable AC charger working Secondary Start time for enable AC charger working Secondary Ending time for enable AC charger working Accept command</cr></crc></cr></crc></cr></cr></crc></cr></crc>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark n: 0~9, unit: second Remark aaaa: HH:MM(hour : minute) bbbb: HH:MM(hour : minute) cccc: HH:MM(hour : minute)
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^S024ACC' Response: ^Data aaaa bbbb aaaa bbbb ^1 ^0	Description voltage Accept command Refuse command Necrest set wait time for feed power 设置并网等待时间 PI <crc><cr> or ^0<crc><cr> Description Wait time Accept command Refuse command Refuse command Refuse command CTaaaaa,bbbb,cccc,dddd<cr> Set AC charge time bucket 设置允许AC充电时间段 PI<crc><cr> To or ^0<crc><cr> Description Start time for enable AC charger working Ending time for enable AC charger working Secondary Start time for enable AC charger working Secondary Ending time for enable AC charger working Accept command Refuse command Refuse command</cr></crc></cr></crc></cr></cr></crc></cr></crc>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark n: 0~9, unit: second Remark aaaa: HH:MM(hour : minute) bbbb: HH:MM(hour : minute) cccc: HH:MM(hour : minute)
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^S024ACC Response: ^Data aaaa bbbb aaaa bbbb ^1 ^0 ^S014ACL	Description voltage Accept command Refuse command Refuse command Nacept command Refuse command Taaaaa,bbbb,cccc,dddd <cr>: Set AC charge time bucket 设置允许AC充电时间段 Nacept command Start time for enable AC charger working Ending time for enable AC charger working Secondary Start time for enable AC charger working Secondary Ending time for enable AC charger working Accept command Refuse command Refuse command</cr>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark n: 0~9, unit: second Remark aaaa: HH:MM(hour : minute) bbbb: HH:MM(hour : minute) cccc: HH:MM(hour : minute)
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^S024ACC' Response: ^Data aaaa bbbb aaaa bbbb ^1 ^0 ^S014ACL' Response: ^	Description voltage Accept command Refuse command Necry: Set wait time for feed power 设置并网等待时间 PI <crc><cr> or ^0<crc><cr> Description Wait time Accept command Refuse command Taaaa,bbbb,ccc,dddd<cr>: Set AC charge time bucket 设置允许AC充电时间段 PI<crc><cr> or ^0<crc><cr> Description Start time for enable AC charger working Ending time for enable AC charger working Secondary Start time for enable AC charger working Accept command Refuse command Refuse command Refuse command Refuse command Taaaa,bbbb<cr>: Set AC supply load time bucket 设置允许AC带载时间段 PI<crc><cr> or ^0<crc><cr> o</cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></crc></cr></cr></crc></cr></crc></cr></cr></crc></cr></crc>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark n: 0~9, unit: second Remark aaaa: HH:MM(hour : minute) bbbb: HH:MM(hour : minute) ccc: HH:MM(hour : minute) dddd: HH:MM(hour : minute)
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^S024ACC' Response: ^Data aaaa bbbb aaaa bbbb ^1 ^0 ^S014ACL' Response: ^Data	Description voltage Accept command Refuse command Necry: Set wait time for feed power 设置并网等待时间 PI <crc><cr> or ^0<crc><cr> Description Wait time Accept command Refuse command Taaaa,bbbb,ccc,dddd<cr>: Set AC charge time bucket 设置允许AC充电时间段 PI<crc><cr> or ^0<crc><cr> Description Start time for enable AC charger working Ending time for enable AC charger working Secondary Start time for enable AC charger working Accept command Refuse command Refuse command Refuse command Refuse command Taaaa,bbbb<cr>: Set AC supply load time bucket 设置允许AC带载时间段 PI<crc><cr> or ^0<crc><cr> Description</cr></crc></cr></crc></cr></cr></crc></cr></crc></cr></cr></crc></cr></crc>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark n: 0~9, unit: second Remark aaaa: HH:MM(hour : minute) bbbb: HH:MM(hour : minute) ccc: HH:MM(hour : minute) dddd: HH:MM(hour : minute) Remark Remark
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Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^S024ACC' Response: ^Data aaaa bbbb aaaa bbbb ^1 ^0 ^S014ACL' Response: ^Data aaaa bbbb	Description voltage Accept command Refuse command Necry: Set wait time for feed power 设置并网等待时间 PI <crc><cr> or ^0<crc><cr> Description Wait time Accept command Refuse command Taaaa,bbbb,cccc,dddd<cr>: Set AC charge time bucket 设置允许AC充电时间段 PI<crc><cr> or ^0<crc><cr> Description Start time for enable AC charger working Ending time for enable AC charger working Secondary Start time for enable AC charger working Accept command Refuse command Refuse command Refuse command Refuse command Secondary Ending time for enable AC charger working Accept command Secondary Ending time for enable AC charger working Accept command Secondary Ending time for enable AC charger working Accept command Secondary Ending time for enable AC charger working Accept command Secondary Ending time for enable AC charger working Accept command Secondary Ending time for enable AC charger working Accept command</cr></crc></cr></crc></cr></cr></crc></cr></crc>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark n: 0~9, unit: second Remark aaaa: HH:MM(hour : minute) bbbb: HH:MM(hour : minute) ccc: HH:MM(hour : minute) dddd: HH:MM(hour : minute) Remark Remark
Response: ^Data nnnn ^1 ^0 ^S006FTnn Response: ^Data nnnn ^1 ^0 ^S024ACC' Response: ^Data aaaa bbbb aaaa bbbb ^1 ^0 ^S014ACL' Response: ^Data aaaa	Description voltage Accept command Refuse command Necrest set wait time for feed power 设置并网等待时间 Pl <crc><cr> or ^0<crc><cr> Description Wait time Accept command Refuse command Refuse command Refuse command Refuse command Refuse command Refuse command Taaaa,bbbb,cccc,dddd<cr>: Set AC charge time bucket 设置允许AC充电时间段 Pl<crc><cr> or ^0<crc><cr> Description Start time for enable AC charger working Ending time for enable AC charger working Secondary Start time for enable AC charger working Secondary Ending time for enable AC charger working Accept command Refuse command Refuse command Taaaa,bbbb<cr> Caaaa,bbbb<cr> CRC><cr> or ^0<crc><cr> Description Start time for enable AC supply load time bucket 设置允许AC带载时间段 Pl<crc><cr> Oescription Start time for enable AC supply the load</cr></crc></cr></crc></cr></cr></cr></cr></crc></cr></crc></cr></cr></crc></cr></crc>	unit: 0.1V, nnnn: 2020,2080, 2200, 2300, 2400 unit: 0.1V, nnnn: 1100,1200 for WP LV Remark n: 0~9, unit: second Remark aaaa: HH:MM(hour : minute) bbbb: HH:MM(hour : minute) ccc: HH:MM(hour : minute) dddd: HH:MM(hour : minute) Remark aaaa: HH:MM(hour : minute)

^0	D. C	T
^0	Refuse command	
^S015ACLT2a	 naaa,bbbb <cr>: Set AC supply load time bucket of the second output 设置第二路输出允许AC带⁵</cr>	
Response: ^1<	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaaa	Start time for enable AC supply the load	aaaa: HH:MM(hour : minute)
bbbb	Ending time for enable AC supply the load	bbbb: HH:MM(hour : minute)
^1	Accept command	
^0	Refuse command	
	: Set battery type	
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
n	Battery type	0: Ordinary, 1: Li-Fe
^1	Accept command	
^0	Refuse command	
	mddhhffss <cr>: Set battery install time 设置电池安装时间</cr>	
Response: ^1<	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
уу	Year	y: 0~9
mm	Month	m: 0~9
dd	Day	d: 0~9
hh	Hour	h: 0~9
ff	Minute	f: 0~9
SS	Second	s: 0~9
^1	Accept command	
^0	Refuse command	
	>: Li-Fe battery self-test by charged at a time 充电激活锂电池	
Response: ^1<	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
n	Enable/Disable	0: disable, 1: enable
^1	Accept command	
^0	Refuse command	
^S016ACCBa,	bbbb <cr>: AC charger keep battery voltage setting AC充电器保持电池电压设置</cr>	
Response: ^1<	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
a	AC charger keep battery voltage function enable/diable	0: disable, 1: enable
bbbb	AC charger keep battery voltage	b: 0~9, unit: 0.1V, range: 400~600 b: 0~9, unit: 0.1V, range: 4000~9000 for WP 30K
^1	Accept command	
^0	Refuse command	
	<cr>: Battery temperature sensor compensation 电池温度补偿</cr>	
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
nnn	Compensation voltage	n: 0~9, unit: 0.1mV, range: 0~100
^1	Accept command	
^0	Refuse command	
	GCnnnn <cr>: Max. AC charging current from AC 最大市电充电电流 CRC><cr> or ^0<crc><cr></cr></crc></cr></cr>	
Data	Description	Remark
nnnn	Max. AC charging current	n: 0~9, unit: 0.1A
^1	Accept command	n. v 2, unit. v.17.
^1	Refuse command	
0	Incruse command	l
	n,nnnn <cr>: Feeding grid power calibration 并网功率校正</cr>	
Response: ^1<	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
m	Feeding grid derection	0: -, 1: +

		T = 2
nnnn	Feeding grid calibration power	n: 0~9, unit: 1W, range: 0~1000
^1	Accept command	
^0	Refuse command	
^S009BDC	Mnnnn <cr>: Battery discharge max current in hybrid mode</cr>	
	并网模式下电池最大放电电流	
Response:	1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	
		Damark
Data	Description	Remark
nnnn	Battery discharge max current	n: 0~9, unit: 1A, range: 10~300
^1	Accept command	
^0	Refuse command	
^S008FPPF	'nnn <cr>: Set feed-in power factor</cr>	
	设定并网功率因素	
Response: /	1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	
Data	Description	Remark
nnn	Feed-in power factor	n: 0~9, 090~100 meas +0.90~+1.00, 190~199 means -0.90~-0.99
^1	*	II. 0~9, 090~100 meas +0.90~+1.00, 190~199 means -0.90~-0.99
	Accept command	
^0	Refuse command	
^S006PALI	En <cr>: Enable/Disable Parallel for output</cr>	
	启动或停止输出并联	
Response: /	1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	
Data	Description	Remark
n	Enable/Disable	0: disable, 1: enable
^1	Accept command	o. disable, 1. chable
	*	
^0	Refuse command	
^S013FPRA	ADJm,nnnn <cr>: R phass Feeding grid power calibration</cr>	
	R相并网功率校正	
Response: ^	1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	
Data	Description	Remark
m	Feeding grid derection	0: -, 1: +
nnnn	Feeding grid calibration power	n: 0~9, unit: 1W, range: 0~1000
^1	Accept command	
^0	Refuse command	
^S013FPSA	ADJm,nnnn <cr>: S phass Feeding grid power calibration</cr>	
	S相并网功率校正	
Response: /	1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	
Data	Description	Remark
	*	0: -, 1: +
m	Feeding grid derection	
nnnn	Feeding grid calibration power	n: 0~9, unit: 1W, range: 0~1000
^1	Accept command	
^0	Refuse command	
^S013FPTA	ADJm,nnnn <cr>: T phass Feeding grid power calibration</cr>	
	T相并网功率校正	
Response:	1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	
		D1
Data	Description	Remark
m	Feeding grid derection	0: -, 1: +
nnnn	Feeding grid calibration power	n: 0~9, unit: 1W, range: 0~1000
^1	Accept command	
^0	Refuse command	
	'	·
^\$014 A A DI	Fa,bbb,ccc <cr>: Auto-adjust PF with power (Only valid for VDE</cr>	4105)
3014AAPI		T103 /
D	自动根据功率调整PF(仅用于VDE4105)	
	1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	<u>-</u>
Data	Description	Remark
a	Enable/Disable function	0: disable 1: enable
bbb	Start power percentage of auto-adjusting	b: 0~9, unit: %, range: 010~090
ссс	Minmum PF value when power percentage reach 100%	c: 0~9, unit: 0.01, range: 190~199, means -0.90~-0.99
^1	Accept command	
^0	Refuse command	
·	1.01400 command	1
AG0107-		
^S0T0FPRA	A±nnnn <cr>: Set feed-in reactive power</cr>	
	设置并网无功功率	
Response: /	1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>	

-	I ₂	
Data	Description	Remark
nnnn	feed-in reactive power	n: 0~9, unit: 1Var, range: -5000~5000
^1	Accept command	
^0	Refuse command	
^S014GVRPaa	aa,bbbb <cr>: Grid Volt Recover Point 设置一阶市电电压恢复点</cr>	
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaaa	Voltage overvoltage recovery point	a: 0~9, unit: 0.1V
bbbb	Voltage undervoltage recovery point	b: 0~9, unit: 0.1V
^S014GSVPaa	aa,bbbb <cr>:Grid volt first order and second order protect Point市电电</cr>	1压二阶保护点
Response: ^1<	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaaa	Second order overvoltage point	a: 0~9, unit: 0.1V
bbbb		
DDDD	Second order underoltage point	b: 0~9, unit: 0.1V
^S024GVPTaa	aa,bbbb,cccc,dddd <cr>:first order and second order volt protection tin</cr>	ne一阶二阶电压保护时间
Response: ^1<	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaaa	Second order overvoltage protection time	a: 0~9, unit: 0.02S
bbbb	Second order underoltage protection time	b: 0~9, unit: 0.02S
	÷ 1	*
cccc	Frist order overvoltage protection time	c: 0~9, unit: 0.02S
dddd	Frist order underoltage protection time	d: 0~9, unit: 0.02S
	,bbbb <cr>: Grid frequency Recover Point 设置市电频率恢复点</cr>	
Response: ^1<	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaaa	Voltage overfrequency recovery point	a: 0~9, unit: 0.01Hz
bbbb	Voltage underfrequency recovery point	b: 0~9, unit: 0.01Hz
	bbbb< <r> cr>:Grid frequency first order and second order protect Point市</r>	
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	· 6 次十二 / 6 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7
		D Is
Data	Description	Remark
aaaa	Second order overfrequency point	a: 0~9, unit: 0.01Hz
bbbb	Second order underfrequency point	b: 0~9, unit: 0.01Hz
^S023FPTaaaa	,bbbb,cccc,dddd <cr>:first order and second order frequency protection</cr>	n time一阶二阶频率保护时间
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaaa	Second order overfrequency protection time	a: 0~9, unit: 0.02S
bbbb	Second order underfrequency protection time	b: 0~9, unit: 0.02S
cccc	Frist order overfrequency protection time	c: 0~9, unit: 0.02S
dddd	Frist order underfrequency protection time	d: 0~9, unit: 0.02S
^S014FHDaaaa	a,bbb,c <cr>:Over frequency drop rated power过频降额</cr>	
Response: ^1<	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaaa	Drop rated power point	a: 0~9, unit: 0.01Hz(5010-6200)
bbb	Drop rated power slope	b: 0~9, unit: 1%(10-100)
000	Trigger delay time	c: 0~9, unit: 15(0-9)
\C0207\DD	nngger delay time a,bbbb,cccc,dddd,eeee <cr>:Voltage and reactive power response 电</cr>	
		压力切啊应 [—] 电压曲线
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaaa	Maximum reactive power response	a: 0~9, unit: 1Var(WP LV 6KW 失效,改为QUQ命令设置)
bbbb	Reduce rated power point1	b: 0~9, unit: 0.1V
cccc	Reduce rated power point2	c: 0~9, unit: 0.1V
dddd	Reduce rated power point3	d: 0~9, unit: 0.1V
eeee	Reduce rated power point4	e: 0-9,unit 0.1V
<u> </u>	F,	
^\$022PTEO- 1	Dbbb,ccc,ddd,eee <cr>: Set Battery EQ Parameter</cr>	
3023B1EQa,		
D	设置电池EQ参数	
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
a	EQ Function Enable or Disable	a:0or1 0: Disable, 1: Enable
bbbb	EQ Voltage	b: 0~9,unit: 0.1V The set range:480~600
	FO Time	c: 0~9, unit: 1Min The set range:5~900Min (Increment of each
ccc	EQ Time	click is 5min.)
		d: 0~9, unit: 1Min The set range:5~900Min (Increment of each
ddd	EQ Timeout	click is 5min.)
		d: U~9, unit: 1Day The set range:U~90Day(Increment of each
eee	Equalization interval	click
		is 1 day)

^S006EOSTa<	cr>: Real time control of EQ status	
	实时控制EQ状态	
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
a	EQ status	1: Enter EQ status 0: Esc EQ status
	na <cr>: CV Time SET</cr>	
	恒压充电时长设置	
_	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaaa	CV Time Number	a: 0~9, unit: 1min The set range:0~900min (Increment of each
		click is 5min.)
^S007OPANG	x <cr>: L1-L2 OP Angle L1-L2输出角度</cr>	
Response: ^1<0	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data		
a	OP Angle	1:120度
		2:180度
^S006SPVPa<	r>: PV parallel PV并联	
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description Description	Remark
a	PV parallel	0: disable 1: enable
	*	
^\$008 A.C.I. Doo	- a <cr>: Second output load duration 第二路输出带载持续时间(on</cr>	ly for TWIN)
		ity 101 Twint/
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	In .
Data	Description	Remark
aaa	AC Load duration	aaa:000-995min; 000:Always loaded
^\$008AFHDaa	a <cr>: AC output coupled frequency modulation gradient</cr>	
5000711711244	AC输出耦合调频曲线	
Response: ^1<0	CRC>cr> or ^0 <crc>cr></crc>	
Data	Description	Remark
aaa	AC output coupled frequency modulation gradient	aaa:005-100; unit: 1%
^S008AFHDaa	a <cr>: AC output coupled frequency modulation gradient</cr>	
	AC输出耦合调频曲线	
	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	ln 1
Data	Description AC output accorded for every second electron and disentences.	Remark aaa:005-100; unit: 1%
aaa	AC output coupled frequency modulation gradient	aaa:003-100; unit: 1%
^S014FLDaaaa	bbb,c <cr>: Low frequency derating curve</cr>	
2011122	低频降额曲线	
Response: ^1<0	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaaa	Low frequency Drop rated power point	aaaa:4800-6000; unit: 0.01HZ
bbb	Drop rated power slope	b: 0~9, unit: 1%
с	Trigger delay time	c: 0~9, unit: 1S
1000		
^S032QUQ±aa	aa,±bbbb,±cccc,±dddd,eeee <cr>: QU curve</cr>	
Dagnange: A1 -	电压无功响应-无功功率曲线	
Data	CRC> <cr> or ^0<crc><cr> Description</cr></crc></cr>	Remark
±aaaa	Maximum reactive power response	a: 0~9, unit: 1Var (±3000)
±bbbb	Drop reactive power point1	b: 0~9, unit: 1Var (±3000) b: 0~9, unit: 1Var (±3000)
±cccc	Drop reactive power point?	c: 0~9,unit: 1Var (±3000)
±dddd	Drop reactive power point3	c: 0~9,unit: 1Var (±3000)
eeee	Drop rated power voltage point	unit: 0.1V
^S013QRTaaaa	,bbbb <cr>: QU/PU/PQ curve response time</cr>	
	QU/PU/PQ曲线响应时间	
<u> </u>	CRC> <cr> or ^0<crc><cr></cr></crc></cr>	
Data	Description	Remark
aaaa	reactive power response time	a: 0~9, unit: 1S (0-5000)
bbbb	active power response time	b: 0~9, unit: 1S (0-5000)

^S019PUD	D±aaaa,bbbb,cccc <cr>: PU curve PU曲线</cr>		
Response:	^1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>		
Data	Description	Remark	
±aaaa	PU Derating active power point	a: 0~9, unit: 1W	
bbbb	PU Drop rated power voltage point1	b: 0~9, unit: 0.1V(1200-1400)	
cccc	PU Drop rated power voltage point2	b: 0~9, unit: 0.1V(1200-1400)	
	PQ曲线 ^1 <crc><cr> or ^0<crc><cr></cr></crc></cr></crc>		
Data	Description	Remark	-
aaaaa	PQ Derating active power point1	a: 0~9, unit: 1W	
bbbbb	PQ Derating active power point2	b: 0~9, unit: 1W	
cccc	PQ Derating active power point3	c: 0~9, unit: 1W	
ddddd	PQ Derating reactive power point1	d:0~9, unit: 1W	
eeee	PQ Derating reactive power point2	e:0~9, unit: 1W	
fffff	PQ Derating reactive power point3	f:0~9, unit: 1W	
			-