

# Modbus Protocol for P01

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## Protocol in P01

### 1. Warning item

Hex	Dec	Size	Content	Bit value	type
0x00 00	0	bit15	bit15 = Reservation		
		bit14	bit14 = Reservation		
		bit13	bit13=Alarm:Bypass frequency unstable	0:FALSE/1:TRUE	Read only
		bit12	bit12=Alarm:Battery low	0:FALSE/1:TRUE	Read only
		bit11	bit11=Alarm:Charger fail	0:FALSE/1:TRUE	Read only
		bit10	bit10 = Reservation		
		bit9	bit9 = Reservation		
		bit8	bit8 = Reservation		
		bit7	bit7 = Reservation		
		bit6	bit6 = Reservation		
		bit5	bit5 = Reservation		
		bit4	bit4 = Reservation		
		bit3	bit3 = Reservation		
		bit2	bit2 = Reservation		
		bit1	bit1 = Reservation		
bit0	bit0 = Reservation				
0x00 01	1	bit15	bit15-bit0 = Reservation		
0x00 02	2	bit15	bit15-bit7 = Reservation		
		bit6	bit6 = Reservation		
		bit5	bit5 = Reservation		
		bit4	bit4 = Reservation		
		bit3	bit3 = Reservation		R
		bit2	bit2=Alarm:P1 cut off pre-alarm	0:FALSE/1:TRUE	Read only
		bit1	bit1 = Reservation		
		bit0	bit0=Alarm:Battery open	0:FALSE/1:TRUE	Read only
0x00 03	3	bit15	bit15 = Reservation		
		bit14	bit14=Alarm:IP site fail	0:FALSE/1:TRUE	Read only
		bit13	bit13=Alarm:Battery over charge	0:FALSE/1:TRUE	Read only

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	bit12	bit12=Alarm:Overload warning	0:FALSE/1:TRUE	Read only
	bit11	bit11=Alarm:Fan lock warning	0:FALSE/1:TRUE	Read only
	bit10	bit10=Alarm:EPO active	0:FALSE/1:TRUE	Read only
	bit9	bit9 = Reservation		
	bit8	bit8=Alarm:Over temperature	0:FALSE/1:TRUE	Read only
	Bit7	bit7-bit0 = Reservation		

## 2. Capability setting (look for Application example 1)

Hex	Dec	Size	Content	Bit value	Register value	type
0x000E	14	bit15	bit15=Enable/disable audible alarm	0:FALSE/1:TRUE	E:8000/D:7FFF	Read/Write
		bit14	bit14=Enable/disable battery mode audible warning	0:FALSE/1:TRUE	E:4000/D:BF00	Read/Write
		bit13	bit13=Enable/disable battery open status check	0:FALSE/1:TRUE	E:2000/D:DF00	Read/Write
		bit12	bit12=Enable/disable Site fault detect	0:FALSE/1:TRUE	E:1000/D:EF00	Read/Write
		bit11	bit11=Set hot standby master/slave, PEM means master, PD	0:FALSE/1:TRUE	E:800/D:F7F0	Read/Write
		bit10	bit10=Enable/disable auto-Restart.	0:FALSE/1:TRUE	E:400/D:FBF0	Read/Write
		bit9	bit9=Enable/disable battery deep discharge protect	0:FALSE/1:TRUE	E:200/D:FDF0	Read/Write
		bit8	bit8=Enable/disable battery low protect	0:FALSE/1:TRUE	E:100/D:F0F0	Read/Write
		bit7	bit7=Enable/disable code start	0:FALSE/1:TRUE	E:80/D:FF7F	Read/Write
		bit6	bit6=Enable/disable bypass forbidding	0:FALSE/1:TRUE	E:40/D:FFBF	Read/Write

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		bit5	bit5=Enable/disable short restart 3 times	0:FALSE/1:TRUE	E:20/D:FFDF	Read/Write
		bit4	bit4=Enable/disable inverter short clear function	0:FALSE/1:TRUE	E:10/D:FFEF	Read/Write
		bit3	bit3=Enable/disable bypass when device turn off.	0:FALSE/1:TRUE	E:8/D:FFF7	Read/Write
		bit2	bit2=Enable/disable bypass audible warning	0:FALSE/1:TRUE	E:4/D:FFFB	Read/Write
		bit1	bit1=Enable/disable high efficiency mode	0:FALSE/1:TRUE	E:2/D:FFFD	Read/Write
		bit0	bit0=Enable/disable energy saving		E:1/D:FFFE	Read/Write
0x000F	15	bit15	bit15=Enable/disable Output socket1 when the delay release	0:FALSE/1:TRUE	E:8000/D:7FFF	Read/Write
		bit14	bit14=Enable/disable Output socket2 when the delay release	0:FALSE/1:TRUE	E:4000/D:BF00	Read/Write
		bit13	bit13=Enable/disable deep high efficiency mode	0:FALSE/1:TRUE	E:2000/D:DF00	Read/Write
		bit12	bit12=Enable/disable converter mode	0:FALSE/1:TRUE	E:1000/D:EF00	Read/Write
			bit0 - b11 =Reservation			

### 3. Support Capability list

Hex	Dec	Size	Content	Bit value	Type
0x0010	16	bit15	Support: Enable/disable audible alarm	0:FALSE/1:TRUE	Read Only
		bit14	Support: Enable/disable battery mode audible warning	0:FALSE/1:TRUE	Read Only
		bit13	Support: Enable/disable battery open status check	0:FALSE/1:TRUE	Read Only
		bit12	Support: Enable/disable Site fault detect	0:FALSE/1:TRUE	Read Only
		bit11	Support: Set hot standby master/slave, PEM means master, PD	0:FALSE/1:TRUE	Read Only
		bit10	Support: Enable/disable auto-Restart.	0:FALSE/1:TRUE	Read Only
		bit9	Support: Enable/disable battery deep discharge protect	0:FALSE/1:TRUE	Read Only
		bit8	Support: Enable/disable battery low protect	0:FALSE/1:TRUE	Read Only

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		bit7	Support: Enable/disable code start	0:FALSE/1:TR UE	Read Only
		bit6	Support: Enable/disable bypass forbidding	0:FALSE/1:TR UE	Read Only
		bit5	Support: Enable/disable short restart 3 times	0:FALSE/1:TR UE	Read Only
		bit4	Support: Enable/disable inverter short clear function	0:FALSE/1:TR UE	Read Only
		bit3	Support: Enable/disable bypass when device turn off.	0:FALSE/1:TR UE	Read Only
		bit2	Support: Enable/disable bypass audible warning	0:FALSE/1:TR UE	Read Only
		bit1	Support: Enable/disable high efficiency mode	0:FALSE/1:TR UE	Read Only
		bit0	Support: Enable/disable energy saving	0:FALSE/1:TR UE	Read Only
0x0 011	17	bit1 5	Support: Enable/disable Output socket1 when the delay release	0:FALSE/1:TR UE	Read Only
		bit1 4	Support: Enable/disable Output socket2 when the delay release	0:FALSE/1:TR UE	Read Only
		bit1 3	Support: Enable/disable deep high efficiency mode	0:FALSE/1:TR UE	Read Only
		bit1 2	Support: Enable/disable converter mode	0:FALSE/1:TR UE	Read Only
			bit0 - bit11 =Reservation		

## 4. Control item (look for Application example 2)

Hex	De c	Size	Content	Bit value	Register value	Type
0x00 1A		bit15	bit15=Silence buzzer beep	0:FALSE/1:TRU E	Y:8000/N:7FFF	Read/Write
		bit14	bit14=buzzer beep open	0:FALSE/1:TRU E	Y:4000/N:BFFF	Read/Write
		bit13	bit13=Test until battery low	0:FALSE/1:TRU E	Y:2000/N:DFFF	Read/Write
		bit12	bit12=Remote turn off UPS	0:FALSE/1:TRU E	Y:1000/N:EFFF	Read/Write
		bit11	bit11=Remote turn on UPS	0:FALSE/1:TRU E	Y:800/N:F7FF	Read/Write

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	bit10	bit10=Cancel shutdown	0:FALSE/1:TRUE	Y:400/N:FBFF	Read/Write
	bit9	bit9=Cancel test	0:FALSE/1:TRUE	Y:200/N:FDFF	Read/Write
	bit8	bit8=10 seconds test	0:FALSE/1:TRUE	Y:100/N:FEFF	Read/Write
	bit7	bit7=Remote turn on UPS output socket 1	0:FALSE/1:TRUE	Y:80/N:FF7F	Read/Write
	bit6	bit6 = Reservation			
	bit5	bit5=Remote turn off UPS output socket 1	0:FALSE/1:TRUE	Y:20/N:FFDF	Read/Write
	bit4	bit4 = Reservation			
		b3-b0 = Reservation			

## 5. The result of control

Hex	Dec	Size	Content	Bit value	Type
0x0025	37	bit15	bit15=Flag:Silence buzzer beep	0:FAIL/1:SUCCESS	Read/Write
		bit14	bit14=Flag:buzzer beep open	0:FAIL/1:SUCCESS	Read/Write
		bit13	bit13=Flag:Test until battery low	0:FAIL/1:SUCCESS	Read/Write
		bit12	bit12=Flag:Remote turn off UPS	0:FAIL/1:SUCCESS	Read/Write
		bit11	bit11=Flag:Remote turn on UPS	0:FAIL/1:SUCCESS	Read/Write
		bit10	bit10=Flag:Cancel shutdown	0:FAIL/1:SUCCESS	Read/Write
		bit9	bit9=Flag:Cancel test	0:FAIL/1:SUCCESS	Read/Write
		bit8	bit8=Flag:10 seconds test	0:FAIL/1:SUCCESS	Read/Write
		bit7	bit7=Flag:Remote turn on UPS output socket 1	0:FAIL/1:SUCCESS	Read/Write
		bit6	bit6 = Reservation	0:FAIL/1:SUCCESS	Read/Write
		bit5	bit5=Flag:Remote turn off UPS output socket 1	0:FAIL/1:SUCCESS	Read/Write
		bit4	bit4 = Reservation	0:FAIL/1:SUCCESS	Read/Write
			b3-b0 = Reservation	0:FAIL/2:SUCCESS	Read/Write

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## 6. Setting Parameter to default value

Hex	Dec	Size	Content	Bit value	Type
0x0030	48	bit15	Setting control parameter to default value	0:FAIL/1:SUCCESS	Read/Write
		b14-b0	= Reservation		
0x003B	59	bit15	Flag:Setting control parameter to default value	0:FAIL/1:SUCCESS	Read/Write
		b14-b0	= Reservation		

## 7. UPS working status

Hex	Dec	Size	Content	units	Type
0x00AA	170	1	Input voltage	0.1V	ReadOnly
0x00AB	171	1	Input frequency	0.1Hz	ReadOnly
0x00AC	172	1	Output voltage	0.1V	ReadOnly
0x00AD	173	1	Output frequency(AC output frequency)	0.1Hz	ReadOnly
0x00AE	174	1	Output current	0.1A	ReadOnly
0x00AF	175	1	Output load percent	1%	ReadOnly
0x00B0	176	1	Positive BUS voltage (P BUS voltage)	0.1V	ReadOnly
0x00B1	177	1	Negative BUS voltage(S BUS voltage)	0.1V	ReadOnly
0x00B2	178	1	P Battery voltage	0.1V	ReadOnly
0x00B4	180	1	Max Temperature of the detecting pointers	0.1°C	ReadOnly
0x00B5	181	2	Ups status	<a href="#">Note1</a>	ReadOnly

## 8. UPS battery information

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0x00 BC	188	1	Battery voltage	0.1V	ReadOnly
0x00 BD	189	1	Battery piece number		ReadOnly
0x00 BE	190	1	Battery group number		Read/Write
0x00 BF	191	1	Battery capacity	%	ReadOnly
0x00 C0	192	1	Battery remain time	minutes	ReadOnly

### 9. UPS working Mode

0x00 D0	208	1	UPS Mode inquiry	<a href="#">Note2</a>	ReadOnly
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### 10. UPS fault information

0x02 A3	675	1	Fault kind	<a href="#">Note3</a>	ReadOnly
0x02 A4	676	1	Battery voltage before fault	0.1V	ReadOnly
0x02 A5	677	1	I/P frequency before fault	0.1Hz	ReadOnly
0x02 A6	678	1	I/P voltage before fault	0.1V	ReadOnly
0x02 A7	679	1	Inverter O/P frequency before fault	0.1Hz	ReadOnly
0x02 A8	680	1	Inverter O/P voltage before fault	0.1V	ReadOnly
0x02 A9	681	1	Negative Bus voltage before fault	0.1V	ReadOnly
0x02 AA	682	1	Positive Bus voltage before fault	0.1A	ReadOnly
0x02	683	1	O/P load before fault	0.1V	ReadOnly



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AB					
0x02 AC	684	1	O/P current before fault	0.1V	ReadOnly
0x02 AD	685	1	Temperature before fault	0.1°C	ReadOnly
0x02 AE	686	1	UPS running status before fault	<a href="#">Note4</a>	ReadOnly

## 11. Output Socket

Hex	De c	Size	Content	Bit value/ units	Type
0x034 6	83 8	Bit15	b0=Output socket 1 status inquiry	0:OFF / 1:ON	ReadOnly
		bit14	b1=Output socket 2 status inquiry	0:OFF / 1:ON	ReadOnly
			b13-b0 = Reservation		
0x038 B	90 7	1	Output socket release1 delay time inquiry in battery mode	minutes	Read/Write

## 12. Loss point

Hex	Dec	Size	Content	Units	Type
0x03 4A	842	1	High efficiency modeVoltage high loss point	V	Read/Write
0x03 4B	843	1	High efficiency modeVoltage low loss point	V	Read/Write
0x03 4E	846	1	The bypass Freq high loss point	0.1Hz	Read/Write
0x03 4F	847	1	The bypass Freq low loss point	0.1Hz	Read/Write
0x03 50	848	1	The bypass Voltage high loss point	V	Read/Write
0x03 51	849	1	The bypass Voltage low loss point	V	Read/Write

## 13. Setting Parameter item

0x03 4A	842	1	High efficiency mode Voltage high loss point	V	Read/Write
0x03 4B	843	1	High efficiency mode Voltage low loss point	V	Read/Write
0x03 4E	846	1	The bypass Freq high loss point	0.1Hz	Read/Write
0x03 4F	847	1	The bypass Freq low loss point	0.1Hz	Read/Write

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0x03 50	848	1	The bypass Voltage high loss point	V	Read/Write
0x03 51	849	1	The bypass Voltage low loss point	V	Read/Write

## 14. Setting Parameter succeed or fail

Hex	Dec	Size	Content	Bit value	type
0x03 85	901	bit15	Flag: High efficiency mode Voltage high loss point	0:FALSE/1:TRUE	Read only
		bit14	Flag: High efficiency mode Voltage low loss point	0:FALSE/1:TRUE	Read only
		bit13	Flag: Reservation	0:FALSE/1:TRUE	Read only
		bit12	Flag: Reservation	0:FALSE/1:TRUE	Read only
		bit11	Flag: The bypass Freq high loss point	0:FALSE/1:TRUE	Read only
		bit10	Flag: The bypass Freq low loss point	0:FALSE/1:TRUE	Read only
		bit9	Flag: The bypass Voltage high loss point	0:FALSE/1:TRUE	Read only
		bit8	Flag: The bypass Voltage low loss point	0:FALSE/1:TRUE	Read only
				bit7-bit0 = Reservation	

## 15. Remote shutdown and test

Hex	Dec	Size	Content	Units/Bit value	Type
0x03 AB	939	1	Shutdown	minutes(ASCII)	Read/Write
0x03 AC	940	1	Test for specified time	minutes(ASCII)	Read/Write
0x03 AD	941	1	Shutdown and restore(N)	minutes(ASCII)	Read/Write
0x03 AE	942	2	Shutdown and restore(M)	minutes(ASCII)	Read/Write
0x03 DA	986	bit15	B15=flag:Shutdown	0:FAIL/1:SUCCE SS	Read only
		bit14	B14=flag:Test for specified time	0:FAIL/1:SUCCE SS	Read only

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	bit13	B13=flag:Shutdown and restore	0:FAIL/1:SUCCE SS	Read only
		b12-b0=Reservation		

## 16. CPU information

Hex	Dec	Size	Content	Units	Type
0x03 E0	992	1	Protocol ID Inquiry	ASCII	Read only
0x03 E1	993	10	Main CPU Firmware version	ASCII	Read only

## 17. UPS model and rating information

0x03 EB	100 3	7	Main Production type	ASCII	Read only
			Sub Production type	ASCII	Read only
			VA type	ASCII	Read only
			H/LV type	ASCII	Read only
			Year	ASCII	Read only
			Month	ASCII	Read only
			Manufacturer ID	ASCII	Read only

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			Serial number	ASCII	Read only
0x03 F2	101 0	1	Battery Piece Number		Read only
0x03 F3	101 1	1	Battery standard voltage per unit	0.1V	Read only
0x03 F4	101 2	1	Input phase		Read only
0x03 F5	101 3	1	Output phase		Read only
0x03 F6	101 4	1	Nominal I/P Voltage	V	Read only
0x03 F7	101 5	1	Nominal O/P Voltage	V	Read only
0x03 F8	101 6	1	Output power factor		Read only
0x03 F9	101 7	2	Output rated VA	W	Read only
0x03 FB	101 9	8	Device model	ASCII	Read only
0x04 8A	116 2	1	Battery Voltage	0.1V	Read only
0x04 8B	116 3	1	Rating Output Current	0.1A	Read only
0x04 8C	116 4	1	Rating Output Frequency	0.1Hz	Read only
0x04 8D	116 5	1	Rating Output Voltage	0.1V	Read only

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## Note

### 1. Note1

<b>Note 1:</b>	
0x00B5H	00: standy; 01: line-interactive; 10: on-line.
0x00B5L	b7: Utility Fail b6: Battery Low b5: Bypass/Boost Active b4: UPS Failed b3: EPO b2: Test in Progress b1: Shutdown Active b0: bat silence
0x00B6H	a1: Bat test fail a0: Bat test OK

### 2. Note2

<b>Note 2:</b>		
0x00D0H	P:	Power on mode
	S:	Standby mode
	Y:	Bypass mode
	L:	Line mode
	B:	Battery mode
	T:	Battery test mode
	F:	Fault mode
	E:	HE/ECO mode
	C:	Converter mode

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	D:	Shutdown mode
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## 3. Note3

Fault Kind	Fault Number	Fault Name
Bus fault	0x01	Bus start fail
	0x02	Bus volt over
	0x03	Bus volt under
	0x04	Bus volt unbalance
	0x05	Bus short
	0x06	PFC over current
Inverter fault	0x11	Inverter soft fail
	0x12	Inverter volt high
	0x13	Inverter volt low
	0x14	L1 inverter short
	0x15	L2 inverter short
	0x16	L3 inverter short
	0x17	L1L2 inverter short
	0x18	L2L3 inverter short
	0x19	L3L1 inverter short
	0x1A	L1 inverter negative power
	0x1B	L2 inverter negative power
	0x1C	L3 inverter negative power
Electric link fault	0x21	Bat SCR short fault
	0x22	Line SCR short fault
	0x23	Inverter relay open fault
	0x24	Inverter relay short fault
	0x25	Wiring fault
	0x26	Battery reverse fault
	0x27	Battery too high
	0x28	Battery too low
0x29	Battery Fuse	

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	0x30	Open-Circuit Fault
Parallel system fault	0x31	CAN communication fault
	0x32	Host line fault
	0x33	Synchronization line fault
	0x34	Synchronization pulse line fault
	0x35	Parallel communication line loss
	0x36	Output circuit fault
Others	0x41	Over temperature
	0x42	CPU communication fault
	0x43	Overload fault
	0x44	Fan fault
	0x45	Charger fault

## 4. Note4

	Bit	Remarks
0x02AEH	7	1:DCTODC on
	6	1:PFC on
	5	1: INVERTER on
	4	Reserved(always 0)
	3	1:input relay on
	2	1:O/P relay on
	1	Reserved(always 0)
	0	Reserved(always 0)

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## Application example

### 1. Audible alarm Enable or Disable

Look for Enable audible alarm, It in table address 0x000E bit15. Then you may write 0x8000 to 0x000E to Enable audible alarm or write 0xEFFF to 0x0E to disable audible alarm.

For example:

[XX 10 00 0E 00 01 02 80 00 CRCL CRCH]Mean: Enable audible alarm.

[XX 10 00 0E 00 01 02 7F FF CRCL CRCH]Mean: Disable audible alarm.

Inquire the result of execute, you may read the follow address 0x10 bit15.

For example:

[XX 03 00 10 00 01 CRCL CRCH]

[XX 03 02 80 00 CRCL CRCH]Mean: Execute success

[XX 03 02 00 00 CRCL CRCH]Mean: Execute fail

### 2. Setting buzzer beeps Silent.

Look for silence buzzer beep in address 0x001A bit 15. Then you may write 0x8000 to 0x001A.

For example:

[XX 10 00 1A 00 01 02 80 00 CRCL CRCH]Silence buzzer beep.

Inquire the execution result. You may read 0x0025

[XX 03 00 25 00 01 CRCL CRCH] to inquire the results of command.

### 3. Setting control parameter to default value

Look for setting control parameter to default value it ,then write 0x8000 to 0x0030. If execute success then set 0x003B bit15 to 1;

For example:

[XX 10 00 30 00 01 02 80 00 CRCL CRCH]Setting control parameter to default value.

[XX 03 00 3B 00 01 CRCL CRCH]to inquire the results of command.

### 4. Get input voltage

Look for input voltage in address 0x00AA, when read 0x00AA to get input voltage and its units is 0.1V

For example:



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PC:[XX 03 00 AA 00 01 CRCL CRH]

DEVICE:[XX 03 02 08 89 CRCL CRCH]

Mean: HEX [0x0889] to DEC[2185] .Input voltage:218.5V.

## 5. Output socket status

Inquire output socket status, Write socket number to 0x0345, then read 0x0346 to inquire socket status.

For example:

PC:[XX 10 03 45 00 01 02 01 00 CRCL CRCH] 01:Means inquire socket 1 status.

PC:[XX 03 03 46 00 01 CRCL CRCH]

DEVICE:[XX 03 02 01 00 CRCL CRCH] 01:Means socket1 was on.

## 6. Remote shut down the UPS

Remote shut down the UPS, then write is a number ranging from (.2, .3, ..., 01, 02, ..., to 10) to the 0x3AB. If execute success then 0x003DA bit0 was set to 1.

For example:

PC:[XX 10 03 AB 00 01 02 2E 32]Mean: Shut down the UPS in 0.2 minutes

## 7. Shut down UPS and auto restart later

Cut UPS output off in <n> minutes and waiting for <m> minutes and then turn on UPS output again. Then write n to 0x03AD and write m to 0x003AE.

For example:

PC:[XX 10 03 AD 00 03 06 2E 32 30 30 30 32 CRCL CRCH]Mean: Shut down the UPS in 0.2 minutes and waiting for 0002 minutes turn on the UPS.

## 8. Setting Parameter item

Set The bypass Voltage high loss point of UPS ,You want to Set the value 286V . Then write 0x011E to 0x0350 .

For example:

PC:[XX 10 03 50 00 01 02 01 1E CRCL CRCH]Mean: Set The bypass Voltage high loss point of UPS for 286V.