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## 1. How to read the device information

### 1.1 Subscribe

Topic:  
home\_energy/{type}/{device}/{uid or mac}/ctrl/#

Payload:

cd=0,p2=0,w1=0,w2=0,pe=99,vv=160,cs=1,cd=0,am=0,o1=1,o2=1,do=2,1,v=200,cj=1,kn=4412,g1=96,g2=99,b1=1,b2=0,md=0,d1=1,e1=0,0,f1=24,0,h1=200,d2=0,e2=0,0,2=0,0,b2=0,d3=0,e3=0,f3=0,h3=0,sg=0,sp=100,st=0,t=126,th=28,c=0,t=0,c=202303012046

[Solar input status 1 p1  
Solar input status 2 p2  
Solar 1 input power w1  
Solar 2 input power w2  
Battery percentage pe  
Device version number vv  
Charging settings cs  
Discharge settings cd  
AM sm  
Output State 1 o1  
Output State 2 o2  
dod discharge depth do  
Battery output threshold lv  
Soc ej  
Battery capacity kn  
Output power 1 g1  
Output power 2 g2  
Is power pack 1 connected b1  
Is power pack 2 connected b2  
Discharge setting mode md  
Time1 enable status d1  
Time1 start time e1 8:12  
Time1 end time f1 12:20  
Time1 output value h1  
Time2 enable status d2  
Time2 start time e2 8:12  
Time2 end time f2 12:20  
Time2 output value h2  
Time3 enable status d3  
Time3 start time e3 8:12  
Time3 end time f3 12:20  
Time3 output value h3  
Time4 enable status d4  
Time4 start time e4 8:12  
Time4 end time f4 12:20  
Time4 output value h4  
Time5 enable status d5  
Time5 start time e5 8:12  
Time5 end time f5 12:20  
Time5 output value h5  
Is the sensor connected sg  
Automatic power size of the monitor sp  
The power transmitted by the monitor st  
Minimum temperature of battery ts  
Maximum temperature of battery cells th  
Charging temperature alarm te  
Discharge temperature alarm tf  
Signal WiFi signal detection ts  
Chip Ic4 version number fc  
Device ID id  
**(212.17 and later versions)**  
Battery capacity a0  
**(212.17 and later versions)**  
Extra 1 battery capacity a1  
**(212.17 and later versions)**  
Extra 2 battery capacity a2  
**(212.17 and later versions)**  
Host battery sign position 10  
**(212.17 and later versions)**  
Extra 1 and extra 2 battery sign position 11  
**(212.17 and later versions)**  
Daily total battery charging power bc  
**(212.17 and later versions)**  
Daily total power of battery discharge bs  
**(212.17 and later versions)**  
Daily total photovoltaic charging power pt  
**(212.17 and later versions)**  
Daily micro reverse output it  
**(212.17 and later versions)**  
The channel currently connected to CTCH c0  
**(212.17 and later versions)**  
The current status of the host CT c1  
**(212.17 and later versions)**  
The power collected by the second acquisition clip of CT001 m1  
**(212.17 and later versions)**  
The power collected by the third acquisition clip of CT001 m2  
**(212.17 and later versions)**  
Maximum current real-time power m3  
**(212.17 and later versions)**  
Rated output power of device output channel 1 lmo1  
**(220.1 and later versions)**  
Rated output power of device output channel 2 lmo2  
**(220.1 and later versions)**  
Rated input power of device input channel 1 lmi1  
**(220.1 and later versions)**  
Rated input power of device input channel 2 lmi2  
**(220.1 and later versions)**  
Is the device limited (including input and output restrictions) lmf  
**(220.1 and later versions)**  
The power collected by the first acquisition clip of CT001 m0  
**(212.2 and later versions)**  
The power collected by the second acquisition clip of CT001 m1  
**(212.2 and later versions)**  
The power collected by the third acquisition clip of CT001 m2  
**(212.2 and later versions)**  
Maximum current real-time power m3  
**(212.2 and later versions)**  
Rated output power of device output channel 1 lmo1  
**(220.1 and later versions)**  
Rated output power of device output channel 2 lmo2  
**(220.1 and later versions)**  
Rated input power of device input channel 1 lmi1  
**(220.1 and later versions)**  
Rated input power of device input channel 2 lmi2  
**(220.1 and later versions)**  
Is the device limited (including input and output restrictions) lmf  
**(220.1 and later versions)**

## 1.2 Public

Topic:  
home\_energy/{type}/{App}/{uid or mac}/ctrl

Payload:

cd=0,md=0 - Charging and discharging simultaneously  
cd=0,md=1 - Fully charged and then discharged

**Note: It will be saved to flash**

## 2. Charging mode setting(Flash storage)

### 2.1 Public

Topic:  
home\_energy/{type}/{App}/{uid or mac}/ctrl

Payload:

cd=0,md=0 - md=0-100. For example, setting 95: cd=0,md=95

**Note: It will be saved to flash**

## 3. Discharge mode setting(Flash storage)

### 3.1 Public

Topic:  
home\_energy/{type}/{App}/{uid or mac}/ctrl

Payload:

cd=0,md=0 - md=0-500. For example, setting 300: cd=0,md=300

**Note: It will be saved to flash**

## 4. Discharge depth setting(Flash storage)

### 4.1 Public

Topic:  
home\_energy/{type}/{App}/{uid or mac}/ctrl

Payload:

cd=0,md=0 - md=0-100. For example, setting 95: cd=0,md=95

**Note: It will be saved to flash**

## 5. Start battery output threshold

### 5.1 Public

Topic:  
home\_energy/{type}/{App}/{uid or mac}/ctrl

Payload:

cd=0,md=0 - md=0-500. For example, setting 300: cd=0,md=300

**Note: It will be saved to flash**

## 6. Timed and fixed power discharge settings(Flash storage)

### 6.1 Public

Topic:  
home\_energy/{type}/{App}/{uid or mac}/ctrl

Payload:

cd=0,md=0 - Set discharge for three periods of time

1. First time period  
cd=0,md=0,(a1=1,b1=0),(v1=260,a2=20,30,v2=123,a3=0,b3=12,30,e3=20,30,y3=123)

2. Second time period  
cd=0,md=0,(a1=1,b1=0),(v1=260,a2=20,30,v2=123,a3=0,b3=12,30,e3=20,30,y3=123)

3. Third time period  
cd=0,md=0,(a1=1,b1=0),(v1=260,a2=20,30,v2=123,a3=0,b3=12,30,e3=20,30,y3=123)

2. cd=0,md=1 - Automatically recognize based on the monitor

**Note: 1. Suitable for the second generation B3200, products are HMA -, HMF -, HMK -**

**2. It will be saved to flash**

**Note: 1. Only suitable for B3500 first generation, product is HMB -**

**2. Do not save to flash**

## 7. Synchronization time setting

### 7.1 Public

Topic:  
home\_energy/{type}/{App}/{uid or mac}/ctrl

Payload:

cd=0,wy=480,yy=123,mm=1,rr=2,hh=23,nn=56,ss=56

**Note: It will be saved to flash**

**Note: It will be saved to flash**