

KWS-306使用说明书



型号	KWS-306WF	KWS-306L	KWS-306
电压范围	AC 85-290V	AC 85-290V	AC 85-290V
电流范围	0-80A	0-80A	0-80A
功率范围	0-23KW	0-23KW	0-23KW
计时范围	面板999小时/APP365天	999小时	999小时
电能范围	0-99999999Kwh	0-99999999Kwh	0-99999999Kwh
温度范围	负20~150度	负20~150度	负20~150度
频率范围	50-60HZ	50-60HZ	50-60HZ
功率因数	0.00-1.00PF	0.00-1.00PF	0.00-1.00PF
断电记忆	有	有	有
过压保护	有	有	有
欠压保护	有	有	有
过流保护	有	有	有

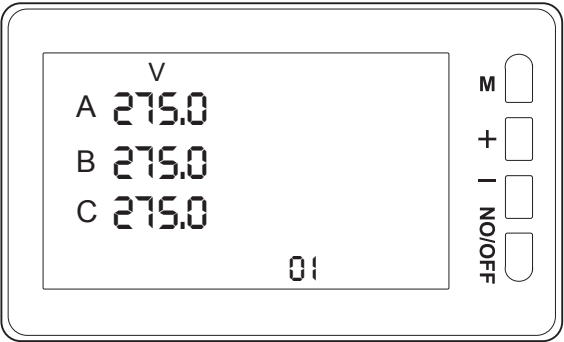
过功率保护	有	有	有
过电能保护	有	有	有
电压不平衡保护	有	有	有
电流不平衡保护	有	有	有
过温保护	有	有	有
定时关	有	有	有
环循环定时	APP支持	无	无
屏保设置	有	有	有
电量清零	有	有	有
计时清零	有	有	有
曲线图	APP端有	PC端有	无
WI-FI	有	无	无
485通信	无	有	无

按键说明

长按M键3秒进入设置页面，
WIFI版的长按+号键3秒WIFI标出现快闪进行WIFI连接
单击+键切换KW或PF显示
单击-键切换A相电量，B相电量，C相电量，SUM总电量，总功率，计时。

1：过压设置

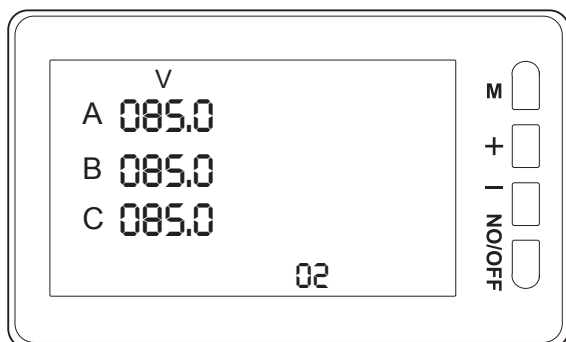
进入设置按M键选择到如下图，代号显示01，按+ - 键调节到你需要的值，单击一次+ - 键调1V，长按+ - 键不放进入快速加减，长按M键3秒保存后返回主页面，短键M键进入到下一项设置。如（图1）



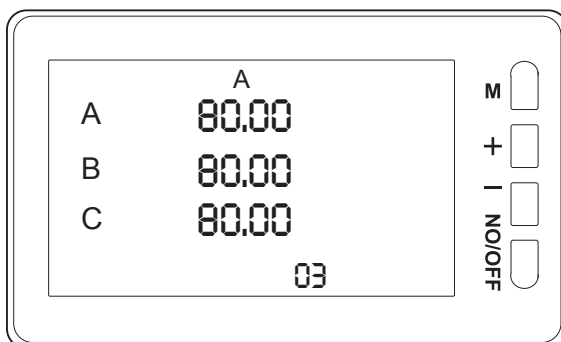
（图1）

2：欠压设置

进入设置按M键选择到如下图，代号显示02，按+ - 键调节到你需要的值，单击一次+ - 键调1V，长按+ - 键不放进入快速加减，长按M键3秒保存后返回主页面，短键M键进入到下一项设置。如（图2）



（图2）



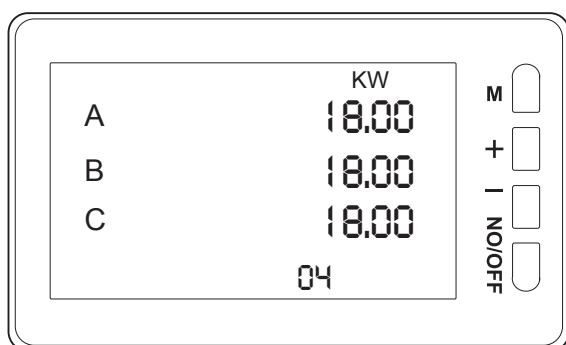
（图3）

3：过流设置

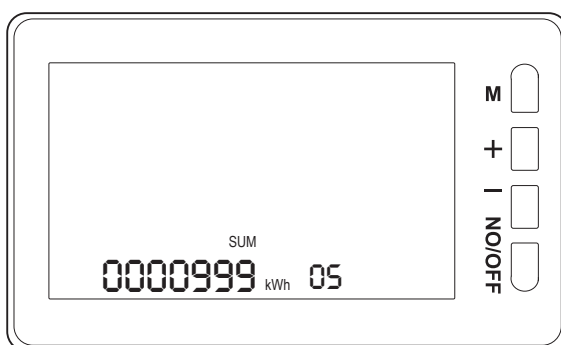
进入设置按M键选择到如上图，代号显示03，按+ - 键调节到你需要的值，单击一次+ - 键调1A，长按+ - 键不放进入快速加减，长按M键3秒保存后返回主页面，短键M键进入到下一项设置。如（图3）

4：过功率设置

进入设置按M键选择到如下图，代号显示04，按+ - 键调节到你需要的值，单击一次+ - 键调1W，长按+ - 键不放进入快速加减，长按M键3秒保存后返回主页面，短键M键进入到下一项设置。如（图4）



（图4）



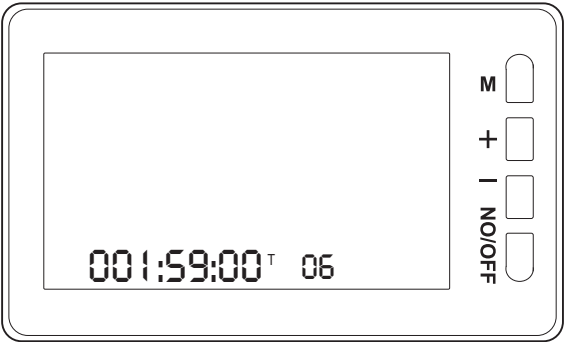
（图5）

5：过电量设置

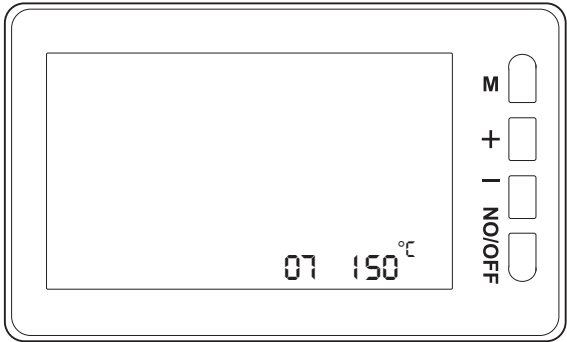
进入设置按M键选择到如上图，代号显示05，按+ - 键调节到你需要的值，单击一次+ - 键调1Kwh，长按+ - 键不放进入快速加减，长按M键3秒保存后返回主页面，短键M键进入到下一项设置。如（图5）

6：定时断电设置

进入设置按M键选择到如下图，代号显示06，按+ - 键调节到你需要的值，单击一次+ - 键调1分钟，长按+ - 键不放进入快速加减，长按M键3秒保存后返回主页面，短键M键进入到下一项设置。如（图6）



（图6）



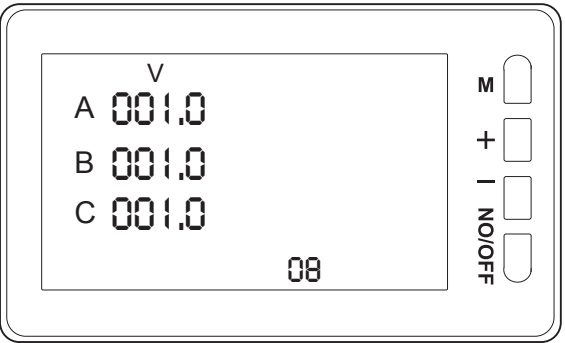
（图7）

7：过温断电设置

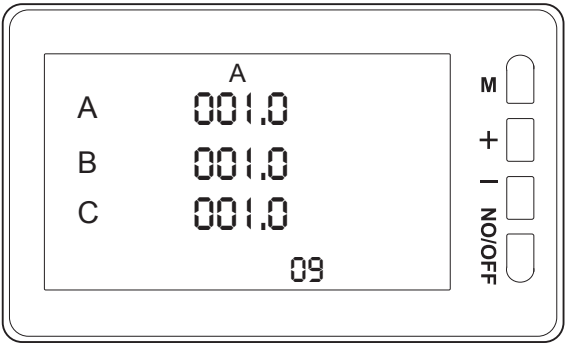
进入设置按M键选择到如上图，代号显示07，按+ - 键调节到你需要的值，单击一次+ - 键调1度，长按+ - 键不放进入快速加减，长按M键3秒保存后返回主页面，短键M键进入到下一项设置。如（图7）

8：电压不平衡断电设置

进入设置按M键选择到如下图，代号显示08，按+ - 键调节到你需要的值，单击一次+ - 键调1V，长按+ - 键不放进入快速加减，长按M键3秒保存后返回主页面，短键M键进入到下一项设置。如（图8）



（图8）



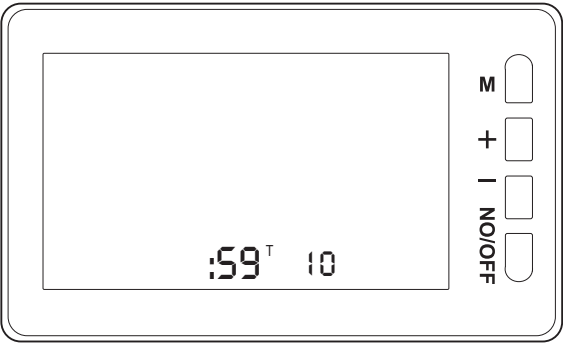
（图9）

9：电流不平衡断电设置

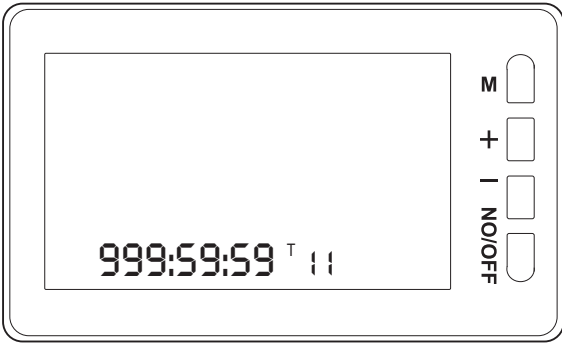
进入设置按M键选择到如上图，代号显示09，按+ - 键调节到你需要的值，单击一次+ - 键调0.1A，长按+ - 键不放进入快速加减，长按M键3秒保存后返回主页面，短键M键进入到下一项设置。如（图9）

10：屏保设置

进入设置按M键选择到如下图，代号显示10，按+ - 键调节到你需要的值，单击一次+ - 键调1分钟，长按+ - 键不放进入快速加减，长按M键3秒保存后返回主页面，短键M键进入到下一项设置。屏保最大设置为59分钟。如（图10）



（图10）



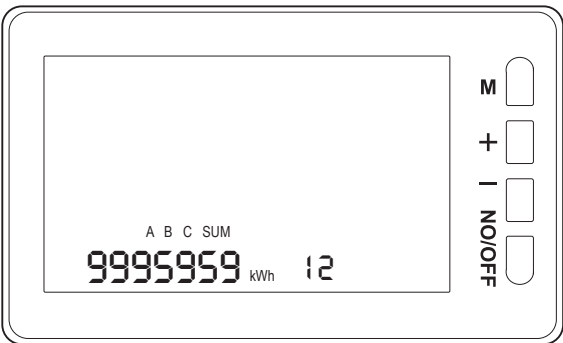
（图11）

11：计时清零

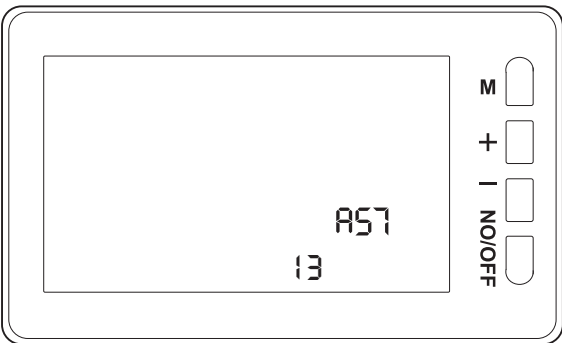
进入设置按M键选择到如上图，代号显示11，再按-键进行计时清零。如（图11）

12：电量清零

进入设置按M键选择到如下图，代号显示12，再按-键进行A箱，B箱，C箱，SUM总电量同时清零。如（图12）



（图12）



（图13）

13：恢复出厂设置

进入设置按M键选择到如上图，代号显示13时。长按-号键5秒左右屏出现RST 代表恢复出厂设置成功。如（图13）

如下为出厂默认值

01过压：275.0V

02欠压：85.0V

03过流：80.00A

04过功率：18.00 KW

05过电能：0000000 kWh

06定时断电设置：000：00：00 T

14通信地址为 001 此功能只针对带RS485版本才开放

07过温断电设置：150度

08电压不平衡设置：000.0V

09电流不平衡设置：000.0A

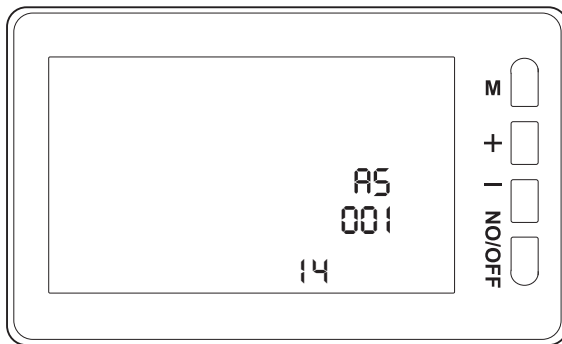
10屏保设置：00T

11计时清零

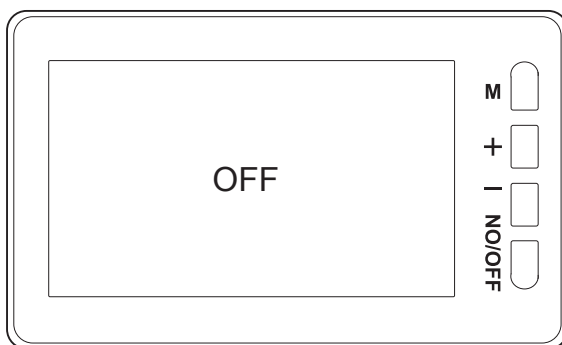
12电能清零

14：通信地址设置（此功能只针对带RS485版本开放）

进入设置按M键选择到如下图，代号显示14时。单击一次+-键调1个地址位，长按+-键不放进入快速加减，长按M键3秒保存后返回主页面。

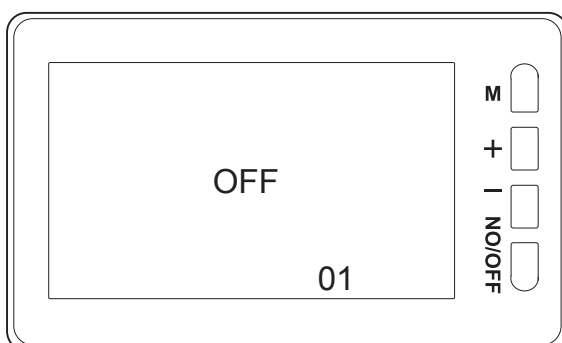


手动按关机键断开磁保器如下图显示

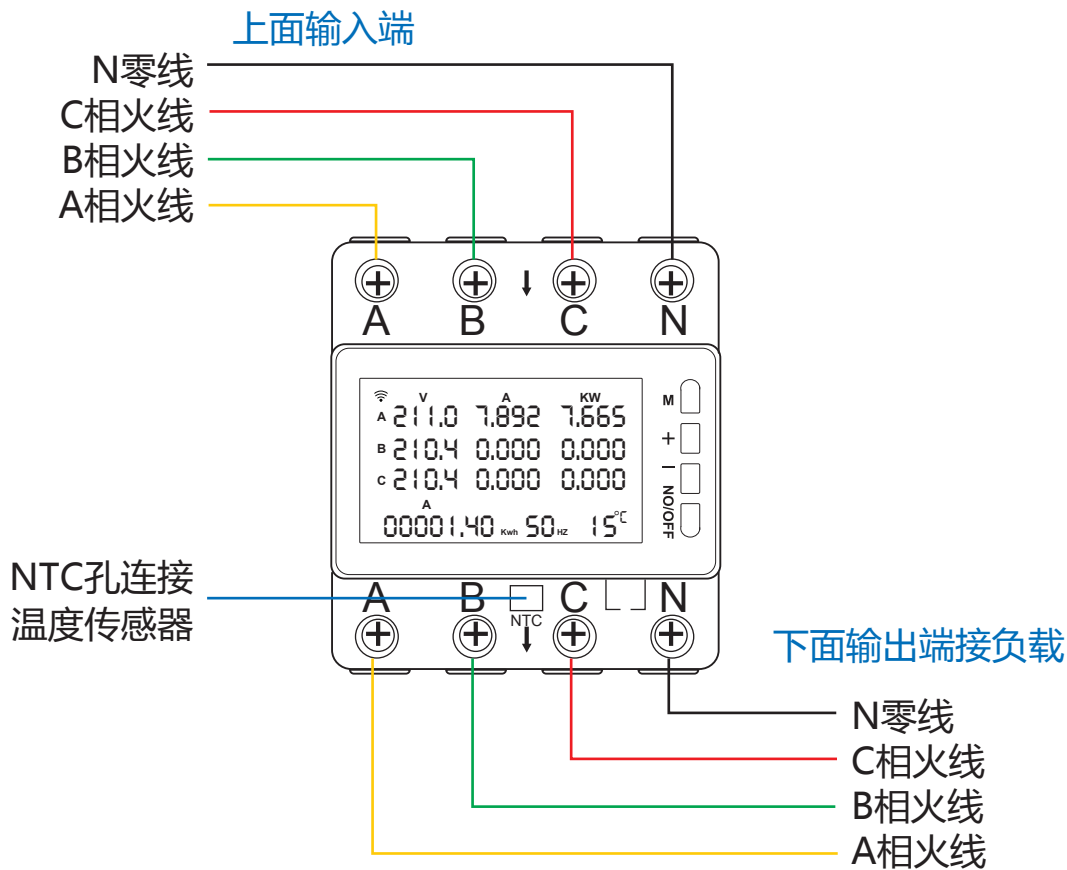


如自动出现保护关机断电时如下图显示。

右下角会出现代码，用对应的代码到上面查看是那一项设置问题。



接线图



注意事项

1. 使用者应详细阅读和了解使用说明书，并按照使用说明书的要求使用。
2. 在安装使用过程中，必须先将电源断开后接线，避免产生触电危险。
3. 产品在使用时必须按照场所使用，不能超出产品规格使用参数范围。
4. 产品出现异常时，应立即停止使用。
5. 非专业人员不得使用工具拆卸电器和变更内部接线。

产品质量三包承诺

1. 所有产品全程质保，客户如果发现质量问题，如属于我方的责任，我方负责无条件换货。在服务期间产品质保期为一年。
2. 产品不得私自改装与拆装。以及超出产品使用范围。产品在人为损坏后，我方不提供免费换货退货和维修服务？但可以提供收费维修服务，具体收费标准根据产品损坏成度而定。

包装清单

测试表主机*1 / 温度传感器*1 / 用户手册*1 / (KWS-306L版本RS485连接线)*1

KWS-306配网使用说明书

APP接网操作

第一步

APP下载方式可以扫码下载，也可以通过手机软件中心搜索（智能生活APP或涂鸦智能APP）。



安装软件



智能生活APP



涂鸦智能APP

第二步

WIFI连接或者重置操作方式：在主页显示下长按+号键直到屏幕右上角WIFI标志出现闪烁时再打开手机APP进行连接



步骤一



步骤二

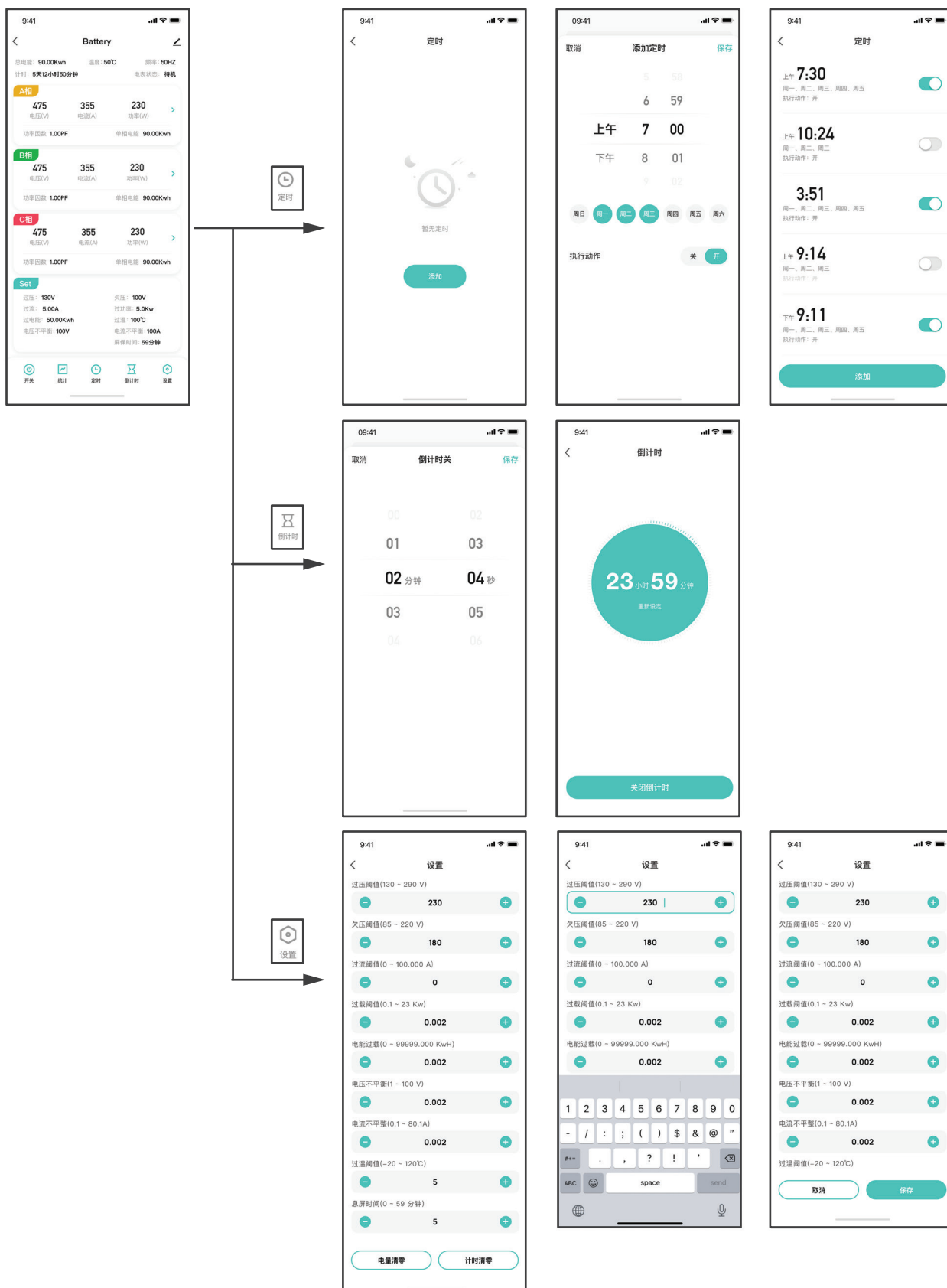


步骤三

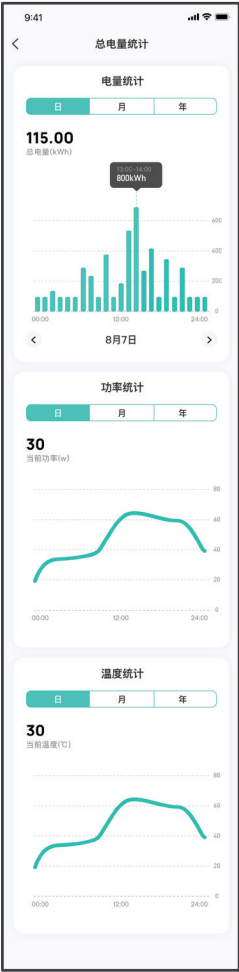


步骤四

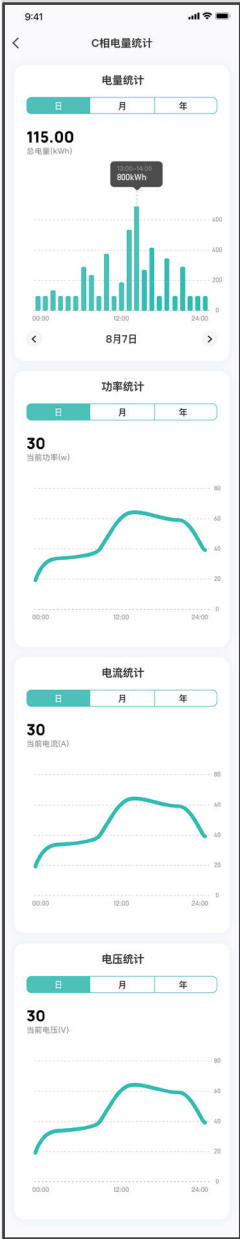
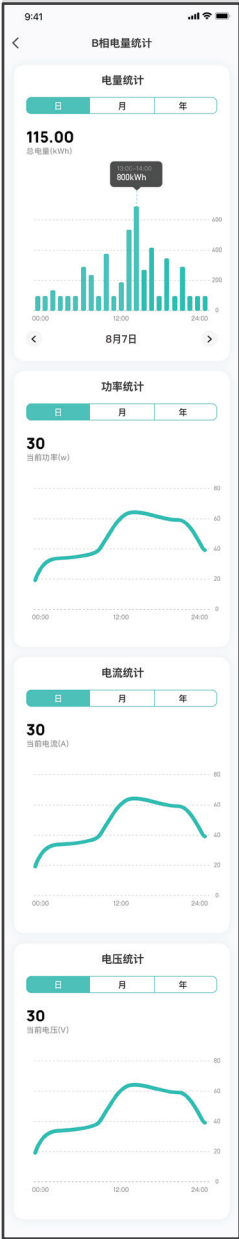
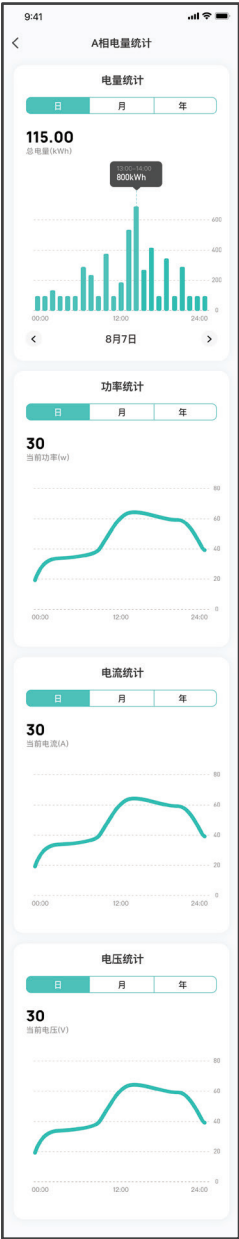
功能展示



点击对应输入框以后，进入编辑状态，获取焦点并弹起数字键盘，在输入过程中可以点击“+”“-”图标进行精细化调节。点击输入框外空白区域后收起键盘并记录更改的数值。进入编辑状态后无论是否修改，都需要进行“取消”或者“保存”操作后才能恢复到常态页面。修改设置后需要点击保存才能保存对应设置项，保存后toast提示“保存成功”。



B相、C相统计和A相同理



KWS-306 User Manual



Model	KWS-306WF	KWS-306L	KWS-306
Voltage Range	AC 85-290V	AC 85-290V	AC 85-290V
Current Range	0-80A	0-80A	0-80A
Power Range	0-23KW	0-23KW	0-23KW
Timing Range	Panel 999 hours / APP 365 days	999 hours	999 hours
Energy Range	0-99999999Kwh	0-99999999Kwh	0-99999999Kwh
Temperature Range	-20 to 150 degrees Celsius	-20 to 150 degrees Celsius	-20 to 150 degrees Celsius
Frequency Range	50-60HZ	50-60HZ	50-60HZ
Power Factor	0.00-1.00PF	0.00-1.00PF	0.00-1.00PF
Power-off Memory	Yes	Yes	Yes
Overvoltage Protection	Yes	Yes	Yes
Undervoltage Protection	Yes	Yes	Yes
Overcurrent Protection	Yes	Yes	Yes

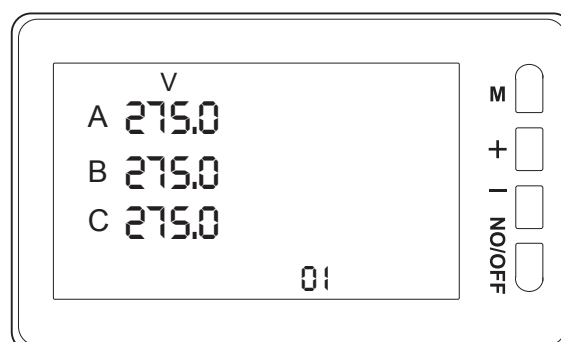
Over Power Protection	Yes	Yes	Yes
Over Energy Protection	Yes	Yes	Yes
Voltage Unbalance Protection	Yes	Yes	Yes
Current Unbalance Protection	Yes	Yes	Yes
Over Temperature Protection	Yes	Yes	Yes
Scheduled Power Off	Yes	Yes	Yes
Cycle Timing	Supported by APP	No	No
Screen Saver Setting	Yes	Yes	Yes
Energy Reset	Yes	Yes	Yes
Timing Reset	Yes	Yes	Yes
Graph Display	Available on APP	Available on PC	No
Wi-Fi	Yes	No	No
485 Communication	No	Yes	No

Key Instructions

- Press and hold the M key for 3 seconds to enter the setup page.
- For the Wi-Fi version, press and hold the "+" key for 3 seconds until the Wi-Fi icon starts blinking rapidly to initiate Wi-Fi connection.
- Single press the "+" key to switch the display between KW or PF.
- Single press the "-" key to switch between A-phase energy, B-phase energy, C-phase energy, SUM total energy, total power, and timing.

1. Overvoltage Setting

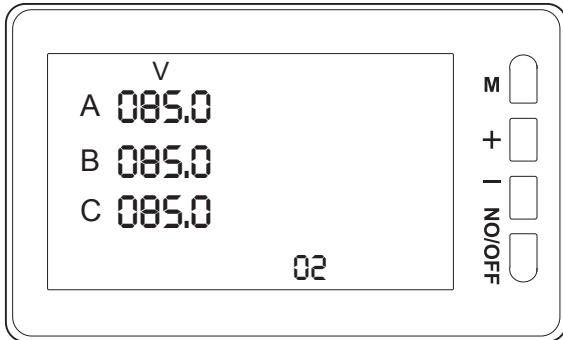
- Enter the settings by pressing the M button until you reach the screen shown below. The display will show the code "01". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 1V. Hold down the "+" or "-" key for fast increment or decrement.
- Press and hold the M key for 3 seconds to save and return to the main page.
- Press the M key briefly to proceed to the next setting, as shown in (figure 1).



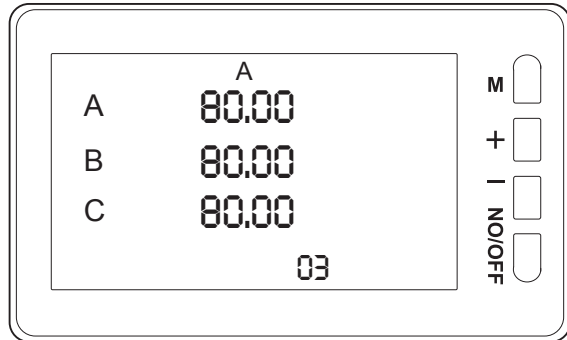
(figure 1)

2. Undervoltage Setting

- Enter the settings by pressing the M button until you reach the screen shown below, where the display will show the code "02". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 1V. Hold down the "+" or "-" key for fast increment or decrement.
- Press and hold the M key for 3 seconds to save and return to the main page.
- Press the M key briefly to proceed to the next setting, as shown in (figure 2).



(figure 2)



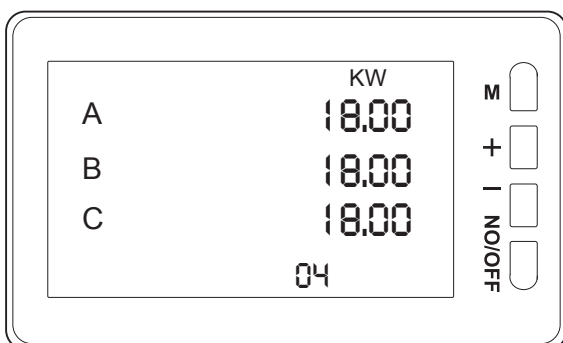
(figure 3)

3. Overcurrent Setting

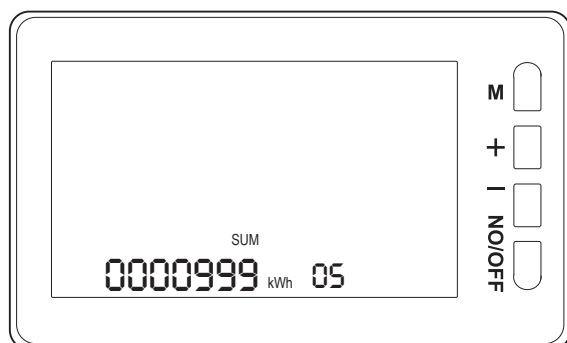
- Enter the settings by pressing the M button until you reach the screen shown above, where the display will show the code "03". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 1A. Hold down the "+" or "-" key for fast increment or decrement.
- Press and hold the M key for 3 seconds to save and return to the main page.
- Press the M key briefly to proceed to the next setting, as shown in (figure 3).

4. Overpower Setting

- Enter the settings by pressing the M button until you reach the screen shown below, where the display will show the code "04". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 1W. Hold down the "+" or "-" key for fast increment or decrement.
- Press and hold the M key for 3 seconds to save and return to the main page.
- Press the M key briefly to proceed to the next setting, as shown in (figure 4).



(figure 4)



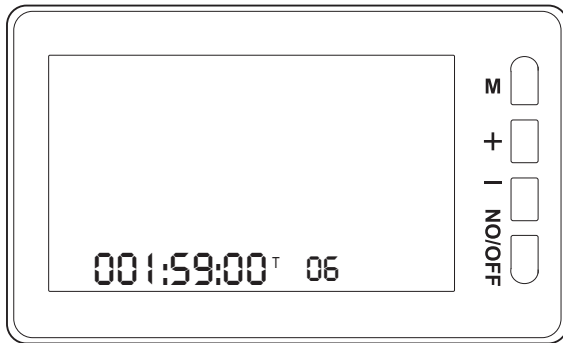
(figure 5)

5. Excess Energy Setting

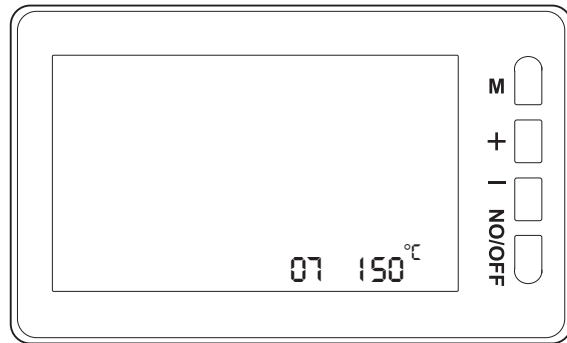
- Enter the settings by pressing the M button until you reach the screen shown above, where the display will show the code "05". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 1 kWh. Hold down the "+" or "-" key for fast increment or decrement.
- Press and hold the M key for 3 seconds to save and return to the main page.
- Press the M key briefly to proceed to the next setting, as shown in (figure 5).

6. Timed Power-Off Setting

- Enter the settings by pressing the M button until you reach the screen shown below, where the display will show the code "06". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 1 minute. Hold down the "+" or "-" key for fast increment or decrement.
- Press and hold the M key for 3 seconds to save and return to the main page.
- Press the M key briefly to proceed to the next setting, as shown in (figure 6).



(figure 6)



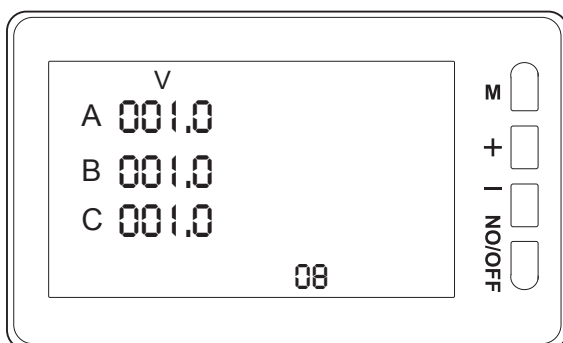
(figure 7)

7. Over-Temperature Power-Off Setting

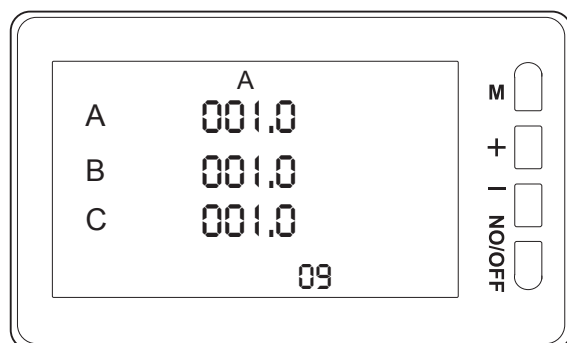
- Enter the settings by pressing the M button until you reach the screen shown above, where the display will show the code "07". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 1 degree. Hold down the "+" or "-" key for fast increment or decrement.
- Press and hold the M key for 3 seconds to save and return to the main page.
- Press the M key briefly to proceed to the next setting, as shown in (figure 7).

8. Voltage Imbalance Power-Off Setting

- Enter the settings by pressing the M button until you reach the screen shown below, where the display will show the code "08". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 1V. Hold down the "+" or "-" key for fast increment or decrement.
- Press and hold the M key for 3 seconds to save and return to the main page.
- Press the M key briefly to proceed to the next setting, as shown in (figure 8).



(figure 8)



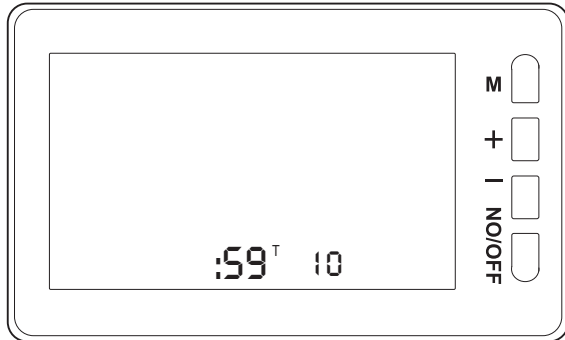
(figure 9)

9. Current Imbalance Power-Off Setting

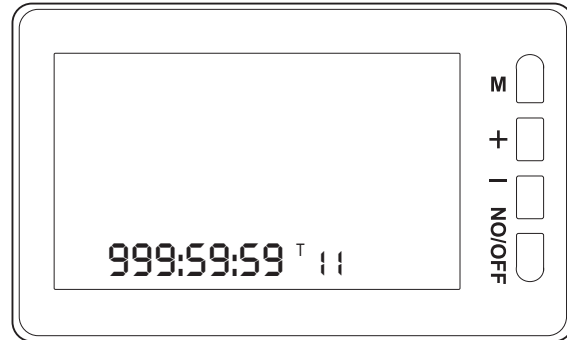
- Enter the settings by pressing the M button until you reach the screen shown above, where the display will show the code "09". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 0.1A. Hold down the "+" or "-" key for fast increment or decrement.
- Press and hold the M key for 3 seconds to save and return to the main page.
- Press the M key briefly to proceed to the next setting, as shown in (figure 9).

10. Screen Saver Setting

- Enter the settings by pressing the M button until you reach the screen shown below, where the display will show the code "10". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 1 minute. Hold down the "+" or "-" key for fast increment or decrement.
- Press and hold the M key for 3 seconds to save and return to the main page.
- Press the M key briefly to proceed to the next setting. The maximum setting for the screen saver is 59 minutes, As shown in (figure 10).



(figure 10)



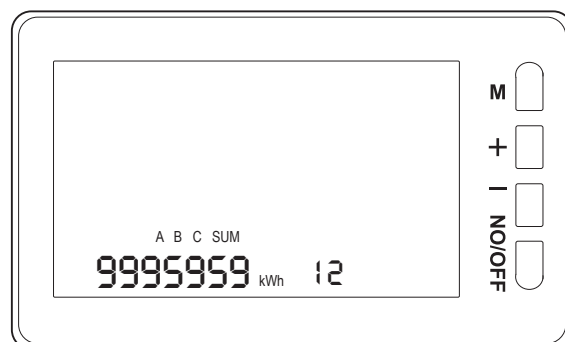
(figure 11)

11. Timer Reset

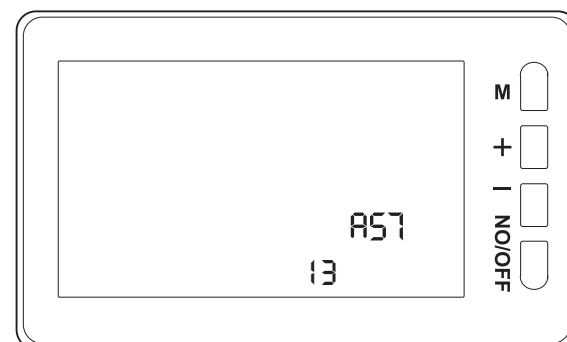
Enter the settings by pressing the M button until you reach the screen shown above, where the display will show the code "11". Then press the "-" key to reset the timer. As shown in (figure 11).

12. Power Reset

Enter the settings by pressing the M button until you reach the screen shown below, where the display will show the code "12". Then press the "-" key to simultaneously reset the power for A box, B box, C box, and the total power (SUM). As shown in (figure 12).



(figure 12)



(figure 13)

13. Factory Reset

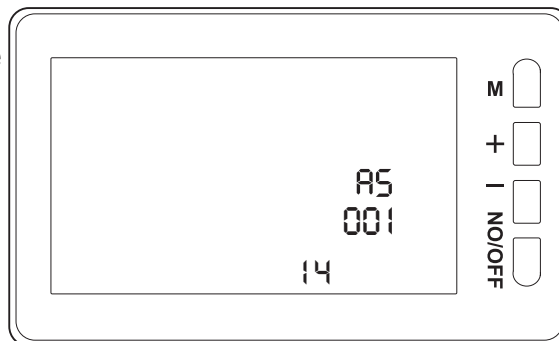
Enter the settings by pressing the M button until you reach the screen shown above, where the display will show the code "13". Then, hold the "-" key for about 5 seconds until "RST" appears on the screen, indicating that the factory reset has been successful. As shown in (figure 13).

Factory Default Values:

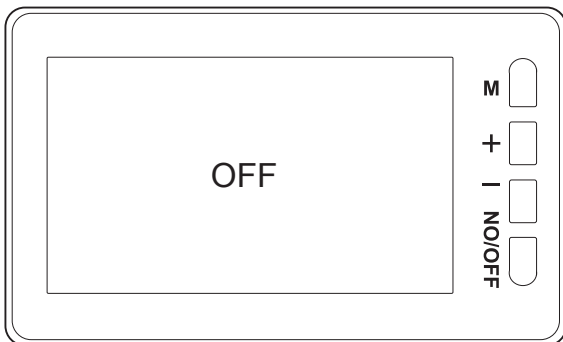
01 Overvoltage: 275.0V	08 Voltage Imbalance Setting: 000.0V
02 Undervoltage: 85.0V	09 Current Imbalance Setting: 000.0A
03 Overcurrent: 80.00A	10 Screen Saver Setting: 00T
04 Overpower: 18.00 KW	11 Timer Reset
05 Over Energy: 0000000 kWh	12 Power Reset
06 Timer Power-off Setting: 000:00:00 T	
07 Overtemperature Power-off Setting: 150 degrees	
14 Communication Address is 001. This function is only available for versions with RS485.	

14. Communication Address Setting (This feature is only available for models with RS485)

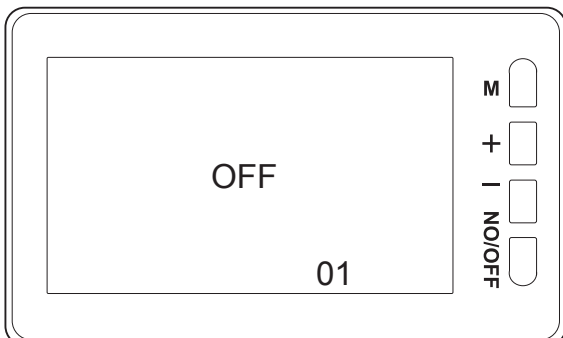
Enter the settings by pressing the M button until you reach the screen shown below, where the display will show the code "14". Press the "+" or "-" key once to change the address by one unit. Hold down the "+" or "-" key for fast increment or decrement. Press and hold the M key for 3 seconds to save and return to the main page.



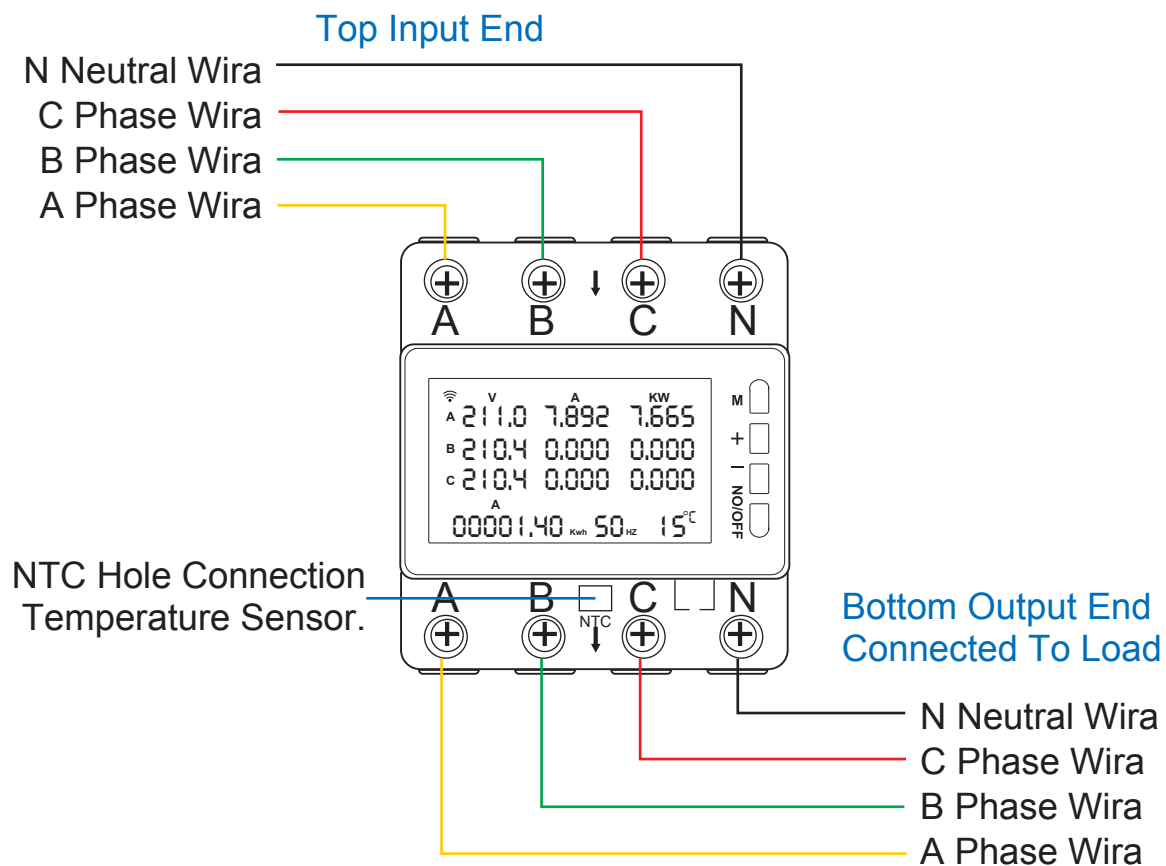
Press the power-off button manually to disconnect the magnetic contactor as shown in the figure below.



If the system automatically shuts down and powers off due to protection, it will be displayed as shown in the figure below. A code will appear in the bottom right corner. Use this code to check above which setting is causing the issue.



Wiring Diagram



Precaution

1. Users should read and understand the instruction manual in detail, and use the product according to the requirements of the instruction manual.
2. During installation and use, the power must be disconnected before wiring to avoid the risk of electric shock.
3. The product must be used according to the location and must not exceed the usage parameters specified in the product specifications.
4. If the product malfunctions, stop using it immediately.
5. Non-professionals should not use tools to disassemble electrical appliances or alter internal wiring.

Three Guarantees Quality Commitment

1. All products are fully warranted. If customers find any quality issues that are attributable to our responsibility, we will provide an unconditional exchange. The warranty period for the products during the service period is one year.
2. The product must not be modified or disassembled privately, nor exceed the scope of its intended use. If the product is damaged due to human actions, we do not provide free exchanges, returns, or repairs. However, we can offer a chargeable repair service, with specific fees based on the extent of the damage.

Packing List

Test Bench Main Unit *1 / Temperature Sensor *1 / User Manual *1 /
(KWS-306L version RS485 Connection Cable) *1

KWS-306 Distribution Instruction Manual

APP

Step 1

The APP can be downloaded by scanning the code or by searching in the mobile phone software center.(Smart Life APP or Graffiti Smart APP).



Installing Software



Use the Smart Life App
or Tuya Smart App



Graffiti Smart APP

Step 2

WIFI Connection or Reset Operation: On the home screen, press and hold the "+" button until the WIFI icon in the top-right corner of the screen starts flashing, then open the mobile APP to connect.



Step One



Step Two

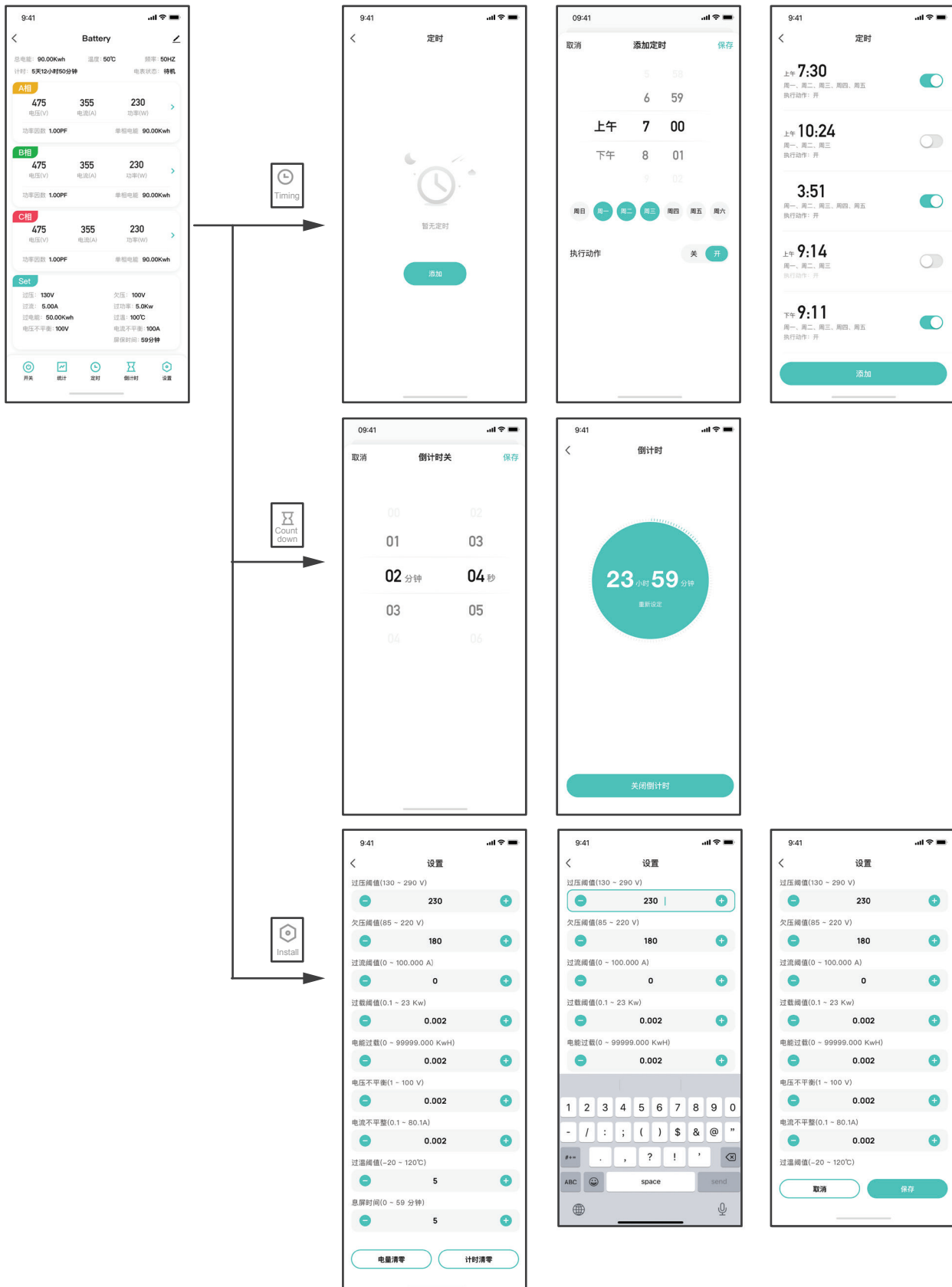


Step Three



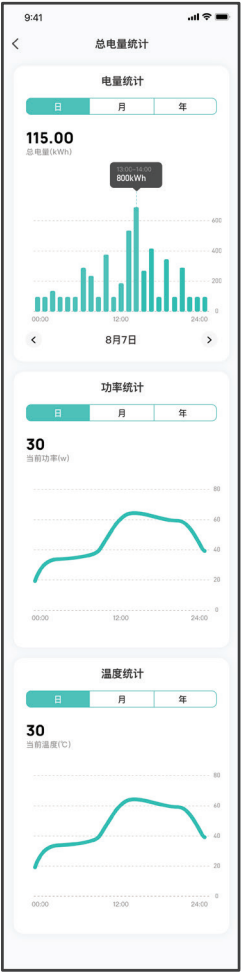
Step Four

Function Display



Click the corresponding input box to enter the editing state, get the focus and pop up the numeric keypad, and click the "+" and "-" icons during the input process to make fine adjustments. Tap the blank space outside the input box, collapse the keypad, and record the changed values.

After entering the editing state, you need to "Cancel" or "Save" to restore the normal page, regardless of whether you modify it or not. After modifying the settings, you need to click Save to save the corresponding settings, and the toast prompts "Save Success" after saving.



The statistics of Phase B and Phase C are the same as those of Phase A

