

Measure. Protect. Connect.

3-Phase Wi-Fi Energy Meter · 80A · 4-pole · SKU 1xELEC-8IN1-DIN-WIFI-3P



80A

3-phase · 4-pole
LCD · Smart Life
Wi-Fi 2.4 GHz

Supplier model
KWS-306WF
Faceplate **3P-WEN**

Owner confirmed (30 Sep 2026 IST): three-phase, **4 poles**, supply **230 V AC**. Commercial current rating **80 A**. This is **not** the single-phase 63 A SKU **1xELEC-8IN1-DIN-WIFI** (KWS-302WF).

Install only with a **qualified electrician**. Supplier sheet measurement range is **AC 85–290 V** and current **0–80 A** for the KWS-306WF column — use those sheet values for commissioning limits, together with the owner topology lock above.

A guide you can return to

Use the routes below or the PDF bookmarks.

- 03 Know the front panel**
Readings, NTC, buttons and phase terminals.
- 04 Installation & wiring**
A/B/C/N IN–OUT diagram and safety list.
- 05 Daily operation**
Enter settings, save, display shortcuts.
- 06 Technical data**
KWS-306WF column from the supplier sheet.
- 07 Settings 01–05**
OV, UV, OC, over-power, excess energy.
- 08 Settings 06–09**
Timer, over-temp, V/I imbalance.
- 09 Settings 10–13 & reset**
Screen saver, clears, factory reset.
- 10 Wi-Fi & Smart Life**
Pairing and app notes from the sheet.
- 11 Troubleshooting**
Trip codes and what to check.
- 12 Commissioning record**
Write down the values you chose.
- 13 Supplier appendix**
Original KWS-306 sheet — superseded values flagged.

Model scope: Wi-Fi model **KWS-306WF** only. The sheet also lists KWS-306 and KWS-306L (RS485) — those columns are not this SKU.

Read the front at a glance

Product photograph of SKU 1xELEC-8IN1-DIN-WIFI-3P (3P-WEN / KWS-306WF).



READINGS

Per phase **A / B / C**:
voltage (V), current (A), power (kW).

Bottom row: total energy (kWh), frequency (Hz),
temperature (°C).

Wi-Fi icon on the display when the WF model is
active.

CONTROLS

M — hold ~3 s to enter settings; short press next
setting; hold ~3 s to save and exit.

+ — increase; hold on home screen until Wi-Fi icon
flashes to pair.

- — decrease; on home, cycles A/B/C/SUM
energy, total power, timing.

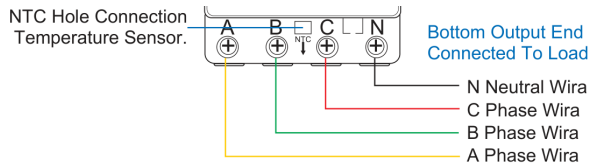
ON/OFF — manual disconnect (sheet also labels
NO/OFF).

Terminals

Top **IN** and bottom **OUT**: **A · B · C · N** (four poles). **NTC** port on the bottom for the temperature sensor.
Match markings on the physical unit before wiring.

Check the circuit first

Installation must be carried out by a qualified electrician.



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

Top (input): supply A, B, C, N.

Bottom (output): load A, B, C, N.

NTC: temperature sensor socket on the bottom.

Sheet colour legend (A yellow / B green / C red / N black) is illustrative — follow local wiring practice and device markings.

Precautions (supplier)

1. Read this manual before use.
2. Disconnect power before wiring.
3. Do not exceed the published parameters.
4. Stop use if the product malfunctions.
5. Non-professionals must not disassemble or alter internal wiring.

Owner lock: three-phase, 4-pole, **230 V AC**, load within **80 A**. Sheet voltage measurement/operating window for KWS-306WF is **AC 85–290 V** — do not treat that as permission to exceed the owner-confirmed site topology.

Packing list (sheet): main unit ×1, temperature sensor ×1, user manual ×1. RS485 cable applies only to KWS-306L — not this Wi-Fi SKU.

First use and daily operation

Configure protection before relying on it.

01 Verify installation

Electrician confirms A/B/C/N IN-OUT, NTC seated, enclosure and upstream protection suitable for 80 A three-phase use.

02 Review factory defaults

Sheet defaults: OV 275.0 V, UV 85.0 V, OC 80.00 A, over-power 18.00 kW, over-temp 150 °C, imbalance 0.0 (see settings pages).

03 Enter / save settings

Hold **M** ~3 s. Short-press M for next code. +/- adjust. Hold **M** ~3 s to save and return. Fast hold +/- for rapid change.

04 Home shortcuts

Short + toggles kW / PF. Short – cycles A/B/C energy, SUM energy, total power, timing. Manual ON/OFF opens the contactor path as illustrated.

If protection trips, the display shows **OFF** with a numeric code (e.g. 01) — match that code to the setting list before restoring power.

Technical reference

KWS-306WF column of the supplier KWS-306 sheet, scoped to this SKU.

Parameter	Specification
SKU / Product ID	1xELEC-8IN1-DIN-WIFI-3P / 9094658457755
Supplier model (Wi-Fi)	KWS-306WF
Faceplate model (photo)	3P-WEN
Phase / poles (owner 30 Sep 2026)	Three-phase / 4 poles
Supply (owner)	230 V AC
Voltage range (sheet)	AC 85–290 V
Current range (sheet)	0–80 A
Power range (sheet)	0–23 kW
Energy range (sheet)	0–9,999,999 kWh
Timing (sheet, WF)	Panel 999 hours / APP 365 days
Temperature (sheet)	–20 °C to 150 °C (at sensor)
Frequency / PF (sheet)	50–60 Hz / 0.00–1.00
Power-off memory (sheet)	Yes
Wi-Fi (sheet / listing)	Yes · Smart Life / Tuya Smart · 2.4 GHz (listing)
Protections (sheet)	OV, UV, OC, over-power, over-energy, V/I unbalance, over-temp, scheduled off, cycle timing

Not this SKU: single-phase 63 A manual model KWS-302WF (SKU 1xELEC-8IN1-DIN-WIFI). Do not reuse its 170–270 V / 63 A tables.

Voltage, current, power, energy

Codes from the supplier sheet. Defaults are the sheet "Factory Default Values".

Code	Purpose	Adjustment	Value reference
01	Overvoltage	Adjust in 1 V steps	Default 275.0 V (illus. 275.0)
02	Undervoltage	Adjust in 1 V steps	Default 85.0 V (illus. 085.0)
03	Overcurrent	Adjust in 1 A steps	Default 80.00 A (illus. 80.00)
04	Over-power	Adjust in 1 W steps*	Default 18.00 kW (illus. 18.00)
05	Excess energy	Adjust in 1 kWh steps	Default 0000000 kWh

*Sheet wording for code 04 is "adjust by 1W" while the display units shown are kW — verify the live display step on the unit.

Per-phase A/B/C values are shown on OV/UV/OC/over-power screens. Save: hold M ~3 s.

App screenshots are not defaults

Marketing photos may show different app numbers (for example a low undervoltage sample).
Commission from the sheet factory defaults and the values you intentionally set — not from ad creatives.

Timer, temperature, imbalance

Continue with short-press M after saving or advancing.

Code	Purpose	Adjustment	Value reference
06	Timed power-off	1 minute steps	Default 000:00:00 (illus. example 001:59:00)
07	Over-temperature power-off	1 °C steps	Default 150 °C
08	Voltage imbalance power-off	1 V steps	Default 000.0 V (illus. 001.0)
09	Current imbalance power-off	0.1 A steps	Default 000.0 A (illus. 001.0)

Defaults vs illustrated figures

Where the factory-default list and the setup figures disagree (imbalance 0.0 vs 1.0), prefer the **Factory Default Values** list for “as shipped”, and treat figure mid-values as illustrated examples unless verified on the unit.

Voltage/current imbalance protections are confirmed present for the WF column. Exact trip definition beyond the sheet labels is not expanded in the English source — configure with the electrician for your load.

Display, clears, factory reset

Use reset only after recording the configuration you need.

Code	Purpose	How	Notes
10	Screen saver	1 minute steps; max 59 min (sheet)	Default 00
11	Timer reset	Press – to reset timer	Action screen
12	Power / energy reset	Press – to clear A/B/C/SUM energy	Action screen
13	Factory reset	Hold – ~5 s until RST	Restores factory settings

Factory reset (code 13)

Enter settings to code 13. Hold the – key about 5 seconds until **RST** appears. Re-check OV/UV/OC and other limits before returning the circuit to service. Code **14** (RS485 address) is for KWS-306L only — not present as a customer feature on this Wi-Fi SKU.

Manual ON/OFF disconnects the magnetic contactor path as shown in the sheet. Automatic protection shutdown also shows OFF plus a fault code.

Wi-Fi and the Smart Life app

Sheet illustrates Smart Life / Tuya ("Graffiti Smart"). Listing specifies 2.4 GHz Wi-Fi.

Pair the KWS-306WF

1. Power the correctly installed meter on a 2.4 GHz network.
2. On the home screen, hold + until the Wi-Fi icon flashes (sheet: about 3 seconds / until flashing).
3. Open Smart Life or Tuya Smart and add the device.
4. Confirm protection limits in-app match the values you set on the panel.

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

App capabilities illustrated

Remote readings, ON/OFF, countdown, schedules and editable protection fields.

After editing in the app, use Save — the sheet says unsaved edits are discarded.

Screen layout varies by app version.

App screenshots in marketing are examples only. Remote control still requires a live supply and network. An app OFF command is **not** a substitute for isolating the circuit before wiring.

[Open product page](#)

When something looks wrong

Use the OFF fault code before changing many settings at once.

Observation	Next step
OFF + code 01...09	Match the code to the setting list (01 OV ... 09 current imbalance). Investigate the cause before raising limits.
No Wi-Fi / pairing fails	Confirm 2.4 GHz, hold + until the icon flashes, retry in Smart Life/Tuya. Router 5 GHz-only networks will not work.
Readings look wrong	Compare with a suitable instrument. Check phase assignment A/B/C/N. Do not "correct" via imbalance limits to hide a fault.
Cannot save a setting	Hold M ~3 s to save. If the unit left the menu by timeout, re-enter and confirm the value.
Energy will not clear	Use code 12 (power reset) per sheet — not the same as factory reset 13.
Unit hot, smell, damage	Isolate safely, stop use, arrange qualified inspection.

Support details to have ready

SKU 1xELEC-8IN1-DIN-WIFI-3P, order reference, photo of the display (never expose live terminals), selected codes, and load description. Listing support: 980-970-9898 · care@amicikart.com.

Contact amiciKart support

Keep your configuration

Write values after successful commissioning.

Installation date / location

Installer / contact

Product / batch label

Circuit / load notes

Code	Recorded	Code	Recorded
01 Overvoltage	_____	02 Undervoltage	_____
03 Overcurrent	_____	04 Over-power	_____
05 Excess energy	_____	06 Timer off	_____
07 Over-temp	_____	08 V imbalance	_____
09 I imbalance	_____	10 Screen saver	_____

Installer checks: A/B/C/N identity, NTC connected, 80 A suitability, supervised trip test, Smart Life pairing on 2.4 GHz, owner topology 3-phase / 4-pole / 230 V AC.

Open product information

Original KWS-306 sheet

Following pages reproduce the source PDF. Prefer this English customer guide where values conflict.

Superseded or scoped values — read first

- This SKU is **KWS-306WF** / 80 A / three-phase 4-pole — not KWS-302WF (63 A single-phase).
- Owner lock: **230 V AC**, three-phase, 4 poles (30 Sep 2026 IST).
- Sheet also describes KWS-306 and KWS-306L (RS485) — ignore those columns for this Wi-Fi unit.
- App/marketing screenshots may show non-default limits.
- DIN wording is implied by form factor/SKU; torque and cable sizes are not published — electrician to determine.

Source: SharePoint Product Manuals **1xELEC-8IN1-DIN-WIFI-3P.pdf**. Version **1.0** digital customer manual. Visual system matches the approved black AS-OVP-63A design language. **Not** published to SharePoint New Manuals / QR / Shopify in this draft step.

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

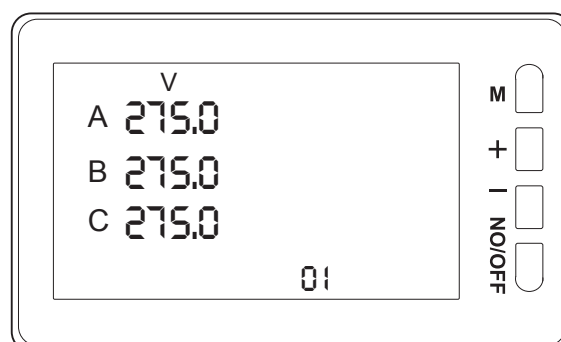
Over Power Protection	Yes	Yes	Yes
Over Energy Protection	Yes	Yes	Yes
Voltage Unbalance Protection	Yes	Yes	Yes
Current Unbalance Protection	Yes	Yes	Yes
Over Temperature Protection	Yes	Yes	Yes
Scheduled Power Off	Yes	Yes	Yes
Cycle Timing	Supported by APP	No	No
Screen Saver Setting	Yes	Yes	Yes
Energy Reset	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

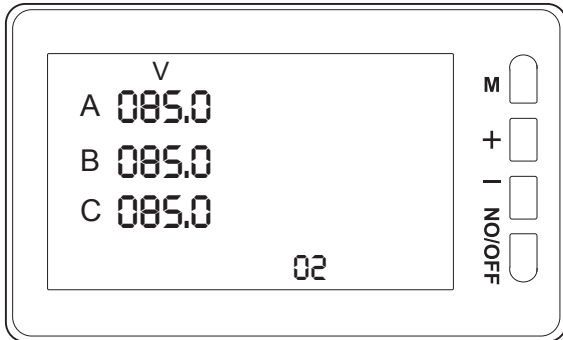
- Enter the settings by pressing the M button until you reach the screen shown below. The display will show the code "01". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 1V. Hold down the "+" or "-" key for fast increment or decrement.
- Press and 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).



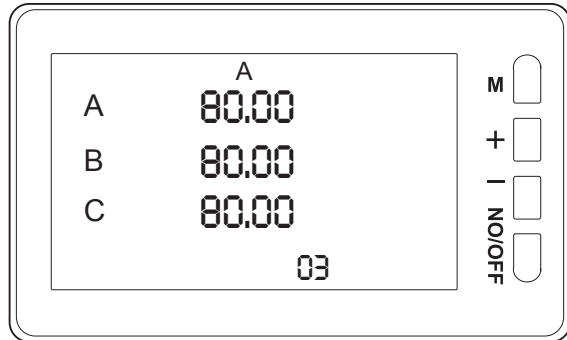
(figure 1)

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)



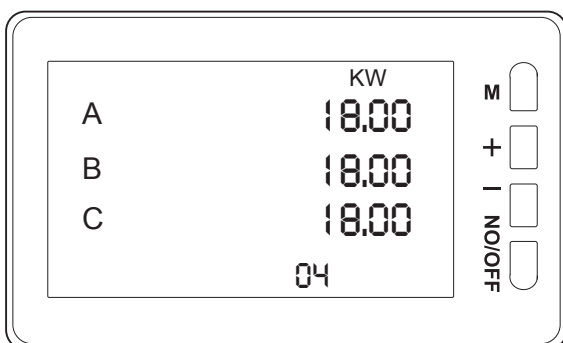
(figure 3)

3. Overcurrent Setting

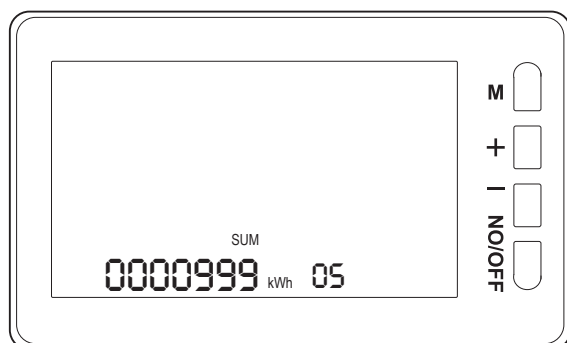
- Enter the settings by pressing the M button until you reach the screen shown above, where the display will show the code "03". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 1A. Hold down the "+" or "-" key for fast increment or decrement.
- Press 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)



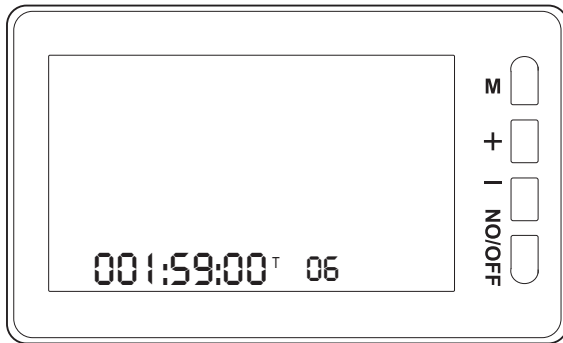
(figure 5)

5. Excess Energy Setting

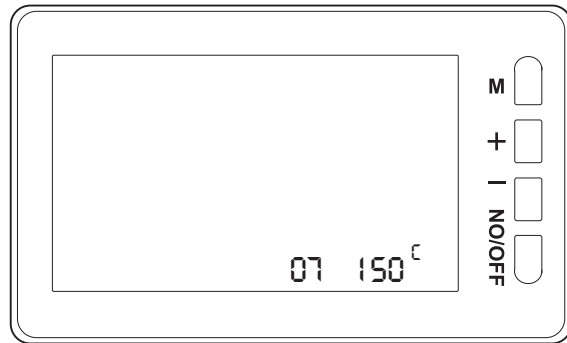
- Enter the settings by pressing the M button until you reach the screen shown above, where the display will show the code "05". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 1 kWh. Hold down the "+" or "-" key for fast increment or decrement.
- 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)



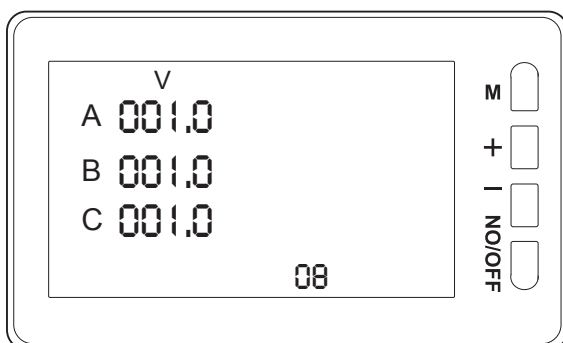
(figure 7)

7. Over-Temperature Power-Off Setting

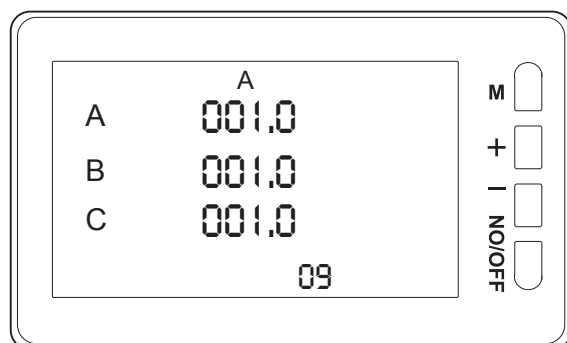
- Enter the settings by pressing the M button until you reach the screen shown above, where the display will show the code "07". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 1 degree. Hold down the "+" or "-" key for fast increment or decrement.
- 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)



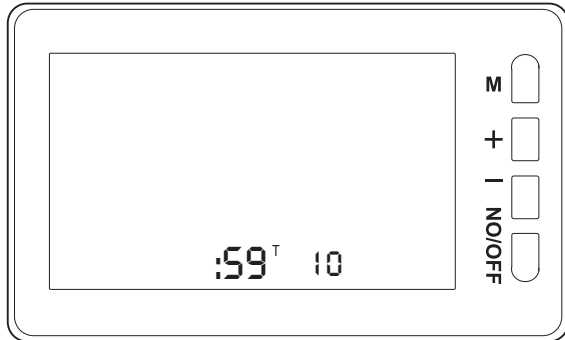
(figure 9)

9. Current Imbalance Power-Off Setting

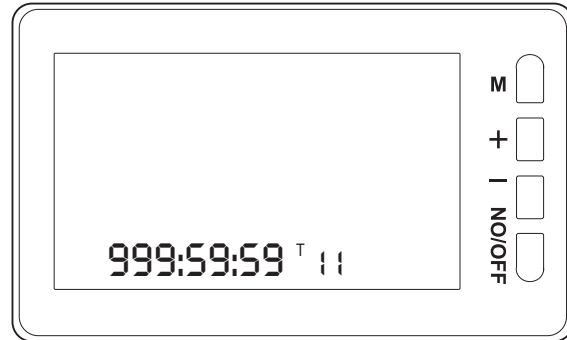
- Enter the settings by pressing the M button until you reach the screen shown above, where the display will show the code "09". Use the "+" and "-" keys to adjust to the value you need.
- Press the "+" or "-" key once to adjust by 0.1A. Hold down the "+" or "-" key for fast increment or decrement.
- 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)



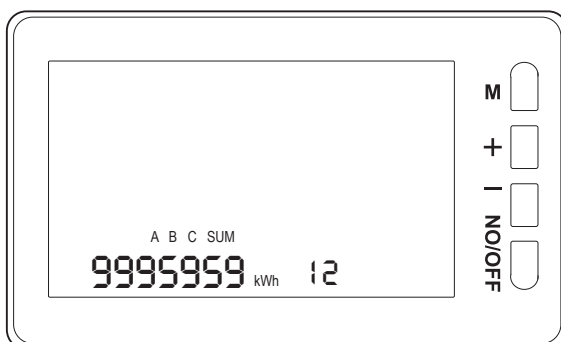
(figure 11)

11. Timer Reset

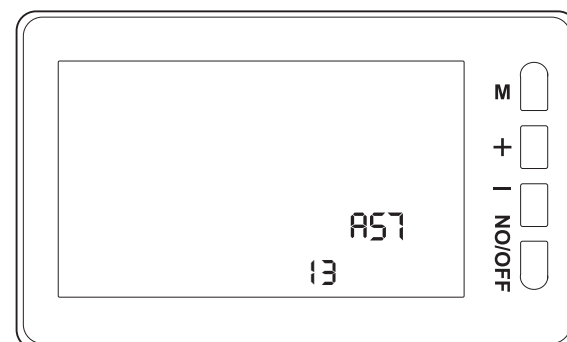
Enter the settings by pressing the M button until you reach the screen shown above, where the display will show the code "11". Then press the "-" key to reset the timer. As shown in (figure 11).

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

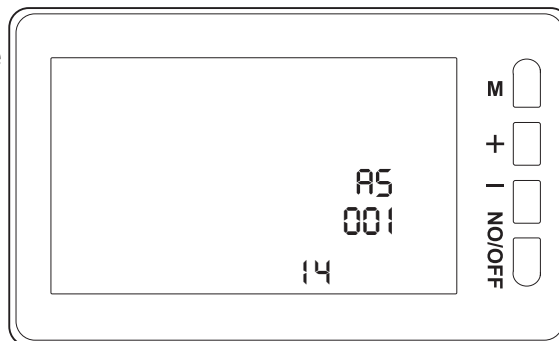
Enter the settings by pressing the M button until you reach the screen shown above, where the display will show the code "13". Then, hold the "-" key for about 5 seconds until "RST" appears on the screen, indicating that the factory reset has been successful. As shown in (figure 13).

Factory Default Values:

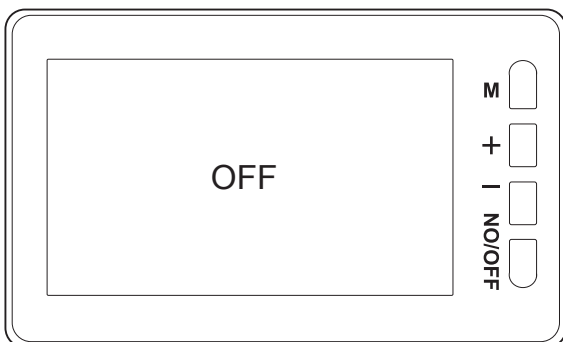
01 Overvoltage: 275.0V	08 Voltage Imbalance Setting: 000.0V
02 Undervoltage: 85.0V	09 Current Imbalance Setting: 000.0A
03 Overcurrent: 80.00A	10 Screen Saver Setting: 00T
04 Overpower: 18.00 KW	11 Timer Reset
05 Over Energy: 0000000 kWh	12 Power Reset
06 Timer Power-off Setting: 000:00:00 T	
07 Overtemperature 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)

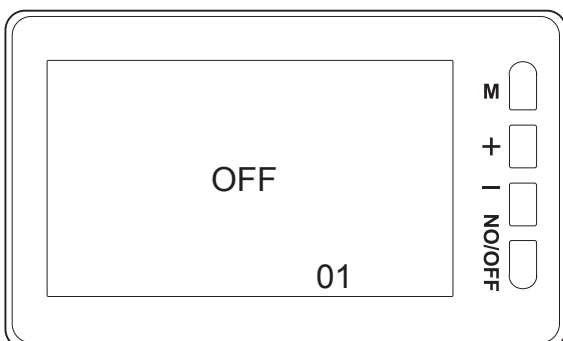
Enter the settings by pressing the M button until you reach the screen shown below, where the display will show the code "14". Press the "+" or "-" key once to change the address by one unit. Hold down the "+" or "-" key for fast increment or decrement. Press and hold the M key for 3 seconds to save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



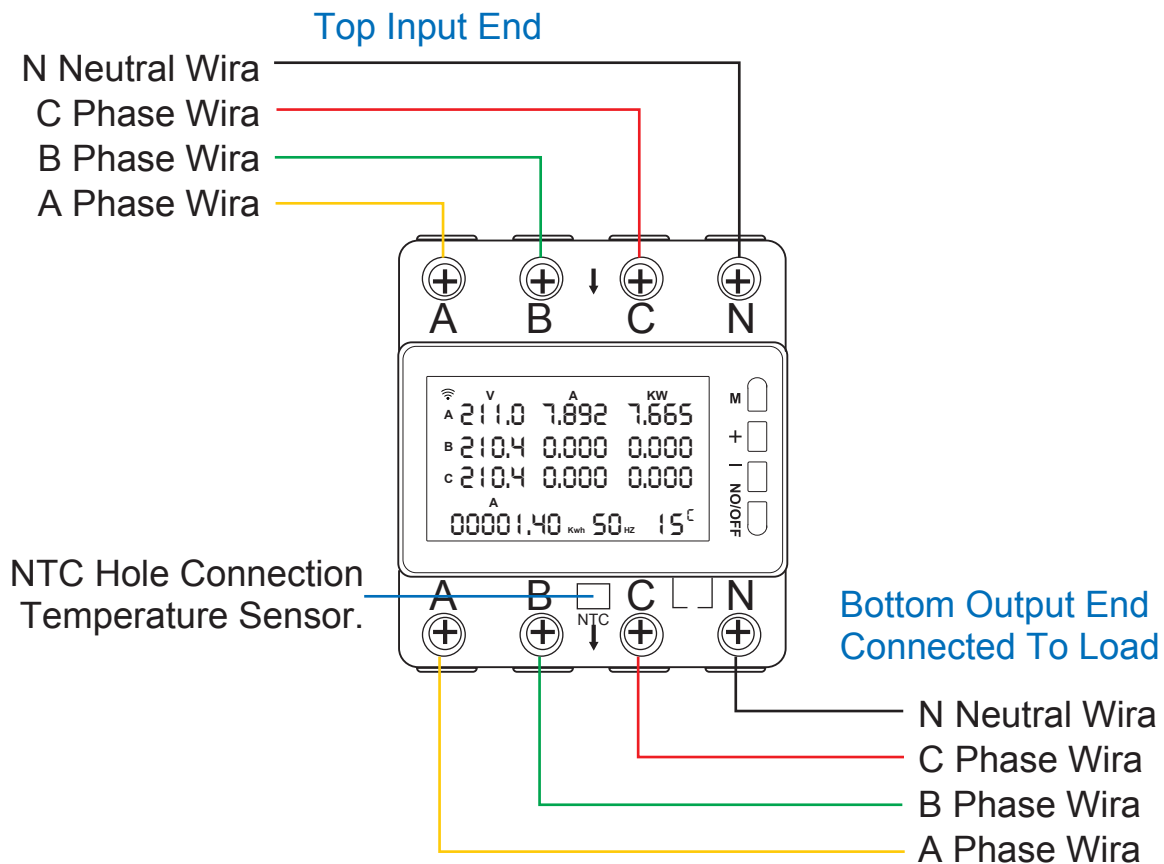
Press the power-off button manually to disconnect the magnetic contactor as shown in the figure below.



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.
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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



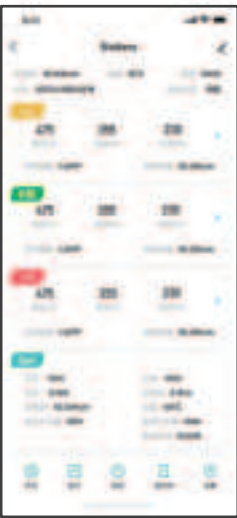
Step Four

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.



Stat



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

4.7% 100 200 300

