

YC7VAs-WIFI-kWh

Overvoltage and Undervoltage
Protector

OPERATION INSTRUCTION

CNC

Deliver Power For
Better Life

-  Before installing and using this product,
please read this manual carefully and pay
more attention to safety.

1. Overview

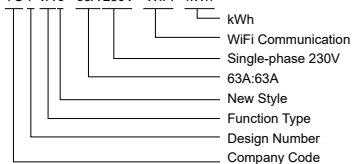
The adjustable voltage, current and leakage detection protection device, with a kilowatt-hour meter, is an intelligent protector that integrates overvoltage protector, undervoltage protector, overcurrent protector and leakage detection. In the event of an overvoltage fault, undervoltage fault, or overcurrent fault, the product can immediately cut off the power supply to avoid damage to electrical equipment. The overvoltage, undervoltage, overcurrent and leakage detection switches of the product can be set by the user and adjusted according to local actual conditions.

2. Characteristics

- The protector automatically disconnects the power supply when an overvoltage, undervoltage, or overcurrent fault occurs in a single-phase circuit. Once the voltage or current returns to the normal range, the power supply is automatically restored after the preset delay time.
- It effectively suppresses transient overvoltage and protects electrical equipment from malfunction or damage caused by voltage surges.
- When the leakage detection function is enabled, if the leakage current exceeds the set value, the protector will automatically disconnect the circuit within 2 seconds. The protector can only restore power supply after the circuit maintenance is completed.
- The product features excellent voltage resistance performance and can operate normally under an AC voltage of 500 V.
- Equipped with an integrated energy metering function, the protector provides real-time display of accumulated energy consumption (kWh).

3. Type designation

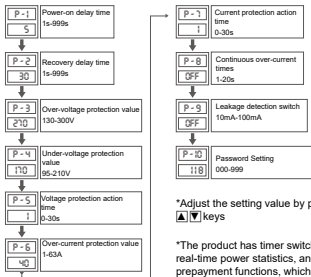
YC 7 VA s - 63A 230V - WIFI - kWh



4. Technical data

Function	Setting Range	Default Value
Input voltage	AC 95–300V	
Power-on delay time	1–999s	5s
Over-voltage protection setting	130–300V	270V
Over-voltage recovery setting	125–295V	265V
Under-voltage protection setting	95–210V	170V
Under-voltage recovery setting	100–215V	175V
Overcurrent protection setting	1–63A(63A type)	40A
Continuous overcurrent trip count	1–20 times	OFF
Leakage current protection setting	10–100mA	OFF
Voltage protection trip delay	0–30s	1s
Recovery delay	1–999s	30s
Overcurrent protection trip delay	0–30s	1s
Mechanical endurance	≥ 100000 times	
Power consumption	≤ 2W	
Password setting	000–999	118
Dimensions	85 × 37 × 69 mm	

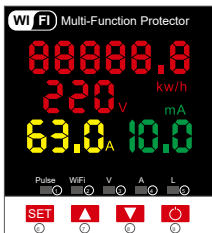
5. Setup menu



*Adjust the setting value by pressing
▲▼ keys

*The product has timer switch,
real-time power statistics, and power
prepayment functions, which can be
set on the mobile phone.

6. Display panel



1. Kilo-watt hour meter pulse indicator
2. WiFi indicator
3. Over/under voltage alarm indicator
4. Over-current alarm indicator
5. Leakage alarm indicator
6. Set: Menu setting key
7. Adjustment key +
8. Press for 5 seconds and the battery power will be cleared
9. Adjustment key -
10. Press and hold for 5 seconds, the WiFi indicator light flashes and the device enters pairing mode.
11. Manual switch
12. Press the power button to OFF, then press and hold the power button for 5-10 seconds until it restarts to restore to factory settings.

7. Screen display description

Over-voltage protection status

	→	
When over-voltage, the protector automatically disconnects, the over-voltage alarm indicator turns on, and the screen shows the over-voltage value.		When the voltage turns normal, the over-voltage alarm indicator turns off, and the protector resets automatically within the set recovery time.

Under-voltage protection status

	→	
When under-voltage, the protector automatically disconnects, the under-voltage alarm indicator turns on, and the screen shows the under-voltage value.		When the voltage turns normal, the under-voltage alarm indicator turns off, and the protector resets automatically within the set recovery time.

Over-current protection status

	→	
When over-current, the protector automatically disconnects, the over-current alarm indicator turns on, and the screen shows the over-current value.		When the current turns normal, the over-current alarm indicator turns off, and the protector resets automatically within the set recovery time.
When the number of continuous overcurrent faults reaches the set value, the protector will not reset automatically. It needs to be reset manually by pressing [C] key.		

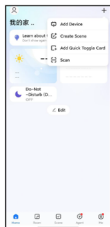
Leakage detection status

	→	
When the leakage detection switch is closed, if leakage occurs, the protector will automatically disconnect, the leakage alarm indicator will light up.		After the leakage protection, you need to press the manual switch to restart to return to normal.
Leakage detection switch, Default OFF		

8. Protector networking steps



Scan the QR code or search for "Smart Life App" in the App Store and download it.



Click Add Device to start adding protector



Turn on the Bluetooth of your phone, search for the protector, find the protector, and click "Add"



Enter Wi-Fi password to connect to the network



The protector is added successfully

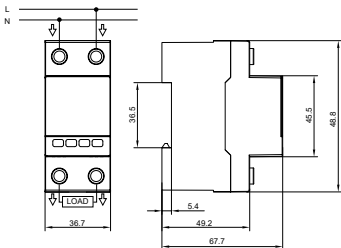


Enter the mobile phone operation interface

Note:

1. This product is intended for leakage current detection only. The displayed leakage current value is for reference only and does not replace the protection function of an RCD or RCBO.
2. The leakage detection function is disabled by default. Enable it manually if leakage monitoring is required.
3. A flashing WiFi indicator indicates that the device is in network configuration (pairing) mode.
4. A steady WiFi indicator indicates that the device has been successfully connected to the mobile app.
5. To ensure a longer service life, it is recommended to set the overcurrent protection value to approximately 70% of the rated current.

8. Overall and mounting dimensions(mm)





CERTIFICATE

Product Model: YC7VAs-WIFI-kWh

Inspector: CNC 001

Production date: Printed on the product
or package

This product is qualified according to the
delivery inspection

CNC

YC7VAs-WIFI-kWh

CNC ELECTRIC

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