ADJUSTABLE
V/A PROTECTOR

ZS3-VA 40A
G.W: 0.159KG
CTN: 16.5KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

ZS3-VA 63A
G.W: 0.181KG
CTN: 19.5KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

Technical Data

Supply terminals	N,L
Rated supply voltage	AC 220V; DC 85-300V
Rated frequency	40/50/60/70Hz
>V setting range	AC130-300V; DC130-300V
<V setting range	AC80-210V; DC85-210V
Voltage hysteresis	5V
Overvoltage trip delay	0.5s
Voltage accuracy	<1%

Max.operating phase voltage	350V
Max.operating current	40A/63A
Altitude	≤2000m
Function	Lightning protection
Pemmissable relative humidity	<50% at 40℃ (without condensation)
Ambient temperature	-25℃~+55℃
Size	81*36*66mm

ADJUSTABLE
V/A PROTECTOR

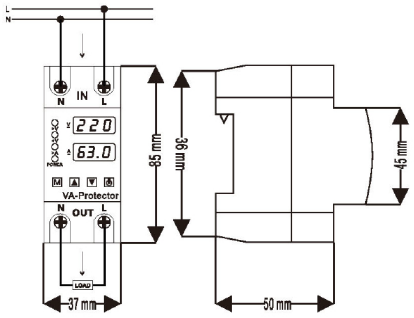
Setup Menu

Set Character	Technical Parameter	Set Range	Default Value	Set Character	Technical Parameter	Set Range	Default Value
P-1	Power-on delaytlme	1-999s	5S	P-11	Overcurrent counter	0-20 times	Off
P-2	Recovery delay	1-999s	30s	P-12	Current adjustment	-10%~+10%V	Real-time current data
P-3	Overvoltage Setting	130-300V	270V	P-13	Frequency adjustment	Do not modify -2.5%+2.5%HZ	Real-time frequency data
P-4	Overvoltage recovery value	125-295V	265V	P-14	Quick powerdown protection	ON/OFF	on
P-5	Undervoltage Setting	80-210V	170V	P-15	Three models	1:Standard 2.Manual 3.Automatic	1
P-6	Undervoltage recovery value	85-215V	175V	P-16	Auto matic reset	ON/OFF	on
P-7	Voltage trip delay	0.1-10s	0.5s	P-17	Switch mode	ON/OFF	on
P-8	Voltage Correction	-10%~ +10%V	Real-time voltage data	P-18	Energy savingmode	ON/OFF	off
P-9	Overcurrent Setting	1A-40A 1A-63A	40A63A	P-19	Password setting	000-999	112
P-10	Overcurrent trip delay	0.1-10s	1.0s	P-20	Change password lock	000-999	112

Front-face Panel

• >V	Overvoltage Indicator
• <V	Undervoltage Indicator
• >A	Overcurrent indicator
• POWER	Normal Working Indicator
M	Menu selection
▲	Up/Digit+
▼	Down/Digit-
⏻	ON/OFF

Wiring Diagram/Dimensional Drawing



ADJUSTABLE
VOLTAGE PROTECTOR

ZS1-V 40A
G.W: 0.153KG
CTN: 16.6KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

ZS1-A 63A
G.W: 0.171KG
CTN: 18.4KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

Technical Data

Supply terminals	N,L
Rated supply voltage	AC 220V
Rated frequency	50/60Hz
>V setting range	AC230-330V
<V setting range	AC140-210V
Voltage hysteresis	5V
Overvoltage trip delay	0.5s
Voltage accuracy	<1%

Max. operating phase voltage	350V
Max.operating current	40A/63A
Altitude	≤2000m
Delay time	1-600s
Pemmissable relative humidity	<50% at 40℃ (without condensation)
Ambient temperature	-25℃~+55℃
Net weight	159g

ADJUSTABLE
VOLTAGE PROTECTOR

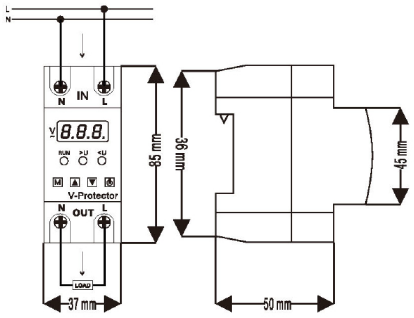
Setup Menu

Set Character	Technical Parameter	Set Range	Default Value
P-1	Starting delay time	1-600s	5s
P-2	Overvoltage Setting	230-300V	270V
P-3	Undervoltage Setting	140-210V	170V
P-4	Voltage trip time	1-30s	1s
P-5	Recovery delay time	1-600s	30s

Front-face Panel

• >V	Overvoltage Indicator
• <V	Undervoltage Indicator
• POWER	Normal Working Indicator
M	Menu selection
▲	Up/Digit+
▼	Down/Digit-
⏻	ON/OFF

Wiring Diagram/Dimensional Drawing



ADJUSTABLE
V/A PROTECTOR

ZS2-VA 40A
G.W: 0.161KG
CTN: 17.5KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

ZS2-VA 63A
G.W: 0.183KG
CTN: 19.5KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

Technical Data

Supply terminals	N,L
Rated supply voltage	AC 220V
Rated frequency	50/60Hz
>V setting range	AC130-330V
<V setting range	AC80-210V
Voltage hysteresis	5V
Overvoltage trip delay	0.5s
Voltage accuracy	<1%

Max. operating phase voltage	350V
Max.operating current	40A/63A
Altitude	≤2000m
Delay time	1-999s
Pemmissable relative humidity	<50% at 40℃ (without condensation)
Ambient temperature	-25℃~+55℃

ADJUSTABLE
V/A PROTECTOR

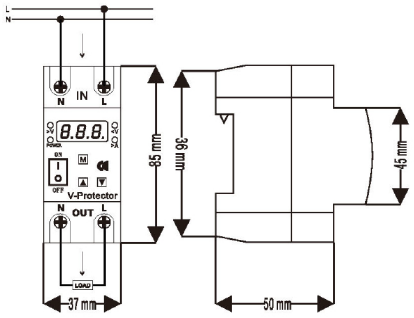
Setup Menu

Set Character	Technical Parameter	Set Range	Default Value	Set Character	Technical Parameter	Set Range	Default Value
P-1	Starting delay time	1-999s	5s	P-7	Overcurrent Setting	1A-40A 1A-63A	40A 63A
P-2	Recovery delay time	1-999s	30s	P-8	Current trip time	0.1-10s	1.0s
P-3	Overvoltage Setting	130-300V	270V	P-9	Overcurrent meter times	0-20times	10s
P-4	Undervoltage Setting	80-210V	170V	P-10	Current Correction	-10%~ +10%V	Real-time current data
P-5	Voltage trip time	0.1-10S	0.5s	P-11	Initial Password	000-999	825
P-6	Voltage Correction	-10%~ +10%V	Real-time voltage data	P-12	Password setting	000-999	825

Front-face Panel

• V	Over/Under voltage Indicator
• A	Overcurrent Indicator
• WORK	fault Indicator
• RUN	Normal Working indicator
M	Menu selection
▲	Up/Digit+
▼	Down/Digit-

Wiring Diagram/Dimensional Drawing



D52-2066 DIN-RAIL

MULTI-FUNCTION DIGITIAL METER

ZS2-VA 40A
G.W: 0.161KG
CTN: 17.5KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

ZS2-VA 63A
G.W: 0.183KG
CTN: 19.5KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

Technical Indicators

Accuracy	1%±2 words	Size	54×80×64
Speed	2 times per second	Installation	Din-Rail
Range	AC voltage: AC 40.0-300.0V or AC 250.0-450.0V (You should select one type of the meter in your order) AC Current:AC 0-100.0A, the current resolution is 0.01A . Frequence: 45.0Hz – 65.0Hz Power Factor: 0.00-1.00PF Electric Power: 0-450000W, the electric power resolution is 0.1W when measure electric power between 0-9999.9W, otherwise the electric power resolution is 1W. Electric Energy: 0-99999kwh, the display of electric energy resolution is 0.01kwh when measure electric engery between 0-999.99kwh, the display of electric energy resolution is 0.1kwh when measure electric engery between 1000.0-9999.9kwh and the display of electric energy resolution is 1kwh when measure electric engery larger than 9999.9kwh		

D52-2066 DIN-RAIL

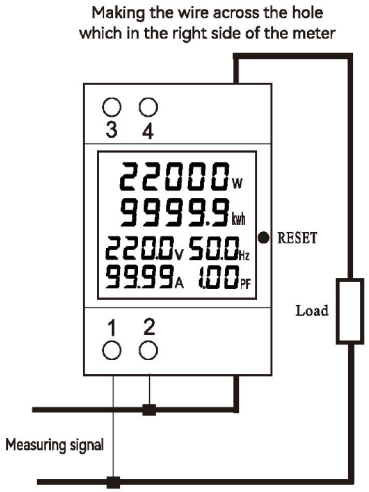
MULTI-FUNCTION DIGITIAL METER

Product Overview

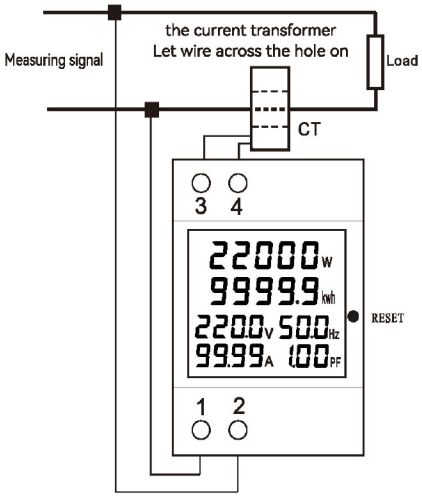
D52-2066 DIN-rail multi-function Digital meter can measure AC voltage, AC current, active power, power factor,frequence and electric energy and the same time. The meter have a colorful, full-view, high definition LCD todisplaythe measure parameters.

Application Method

① Connect the measure voltage to the 1 and 2 terminal
② Connections of meter with internal current transformer as graph 1. Make the wire through the hole in the meter and the irection chose arbitrarily.
③ Connections of meter with external current transformer as graph 2. Make the wire through the hole in the meter, and connect the two wires of the secondary transformer to the 3 and 4 terminal.
④ When power on, the meter display the measure parameters.
⑤ When power on, you can press the button of SAM CK last for 5 seconds, then the electric energy will to be zero and start to cumulate when release the button. And when power off, the meter can save the value of electric energy and go on cumulating data when the meter power-on next.



Graph 1.Connect graph when AC current lower than 100A



Graph:2 install current transformer

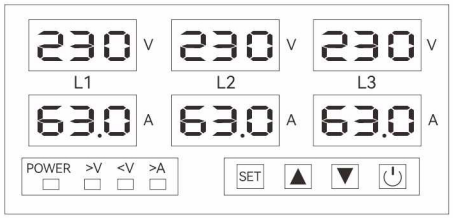
Attention: The meter can only use for measure 45-65HzAC city electricity.

THREE PHASE ADJUSTABLE
V/A PROTECTOR

ZS2-VA 40A
G.W: 0.161KG
CTN: 17.5KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

ZS2-VA 63A
G.W: 0.183KG
CTN: 19.5KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

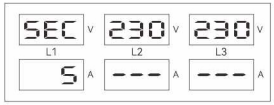
Display panel



230 V	Voltage display
63.0 A	Current display
POWER	Output prompt
>V	Overvoltage warning
<V	Undervoltage warning

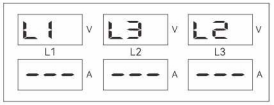
>A	Overcurrent warning
SET	Hand switch
▲	Adjusting key
▼	Adjusting key
⏻	Menu key

Reset/startdelay Display



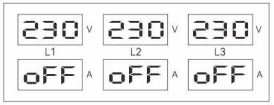
Voltage operating values are shown on L1-L2-L3 and on current during the start of delay counting on L2 Value display; After thedelay is over, the output relays close and they will open normally.

Phase Sequence Error Indication



When a phase fault occurs,L1-L3-L2 is displayed, and the protectoris disconnected from the output power supply.

Reset/startdelay Display



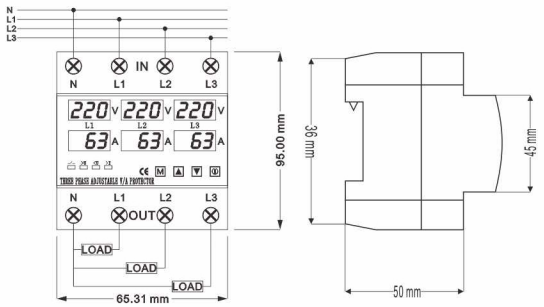
Continuous over current fault indication
Disconnect overload device
Start the relay after manual reset

THREE PHASE ADJUSTABLE
V/A PROTECTOR

Setup Menu

Set Character	Technical Parameter	Set Range	Default Value	Set Character	Technical Parameter	Set Range	Default Value	Step forward
P-1	Power-on delay time	1s-600s	5s	P-9	Three-phase voltage unbalance recovery value	5V-95v	20V	1V
P-2	Protection recoverydelay	1s-600s	30s	P-10	Three-phase voltage calibration	-9.5V~9.5V	0V	1V
P-3	Overvoltage protection value	230V-300V	270V	P-11	Phase-sequence switch	ON/OFF	ON	
P-4	Overvoltage recovery value	225V-295V	265V	P-12	Overcurrent protection value	1A~63A 1A~80A 1A~99.9A	63A 80A 99.9A	1A
P-5	Under voltage protection value	120V-210V	170V	P-13	Overcurrent protection operation time	0.1s~10s	0.5s	0.1s
P-6	Under voltage recovery value	125V-215V	175V	P-14	Numberof continuous overcurrent protection	0~20	OFF	1
P-7	Voltage protection action delay	0.1s-10s	0.5s	P-15	Three phase current error value	-9.5A~9.5A	0	1
P-8	Three-phase voltage unpalance value	20V-100V	50V					

Wiring Diagram/Dimensional Drawing



WiFi Din Rail Switch

(Smart Life APP)

ZS2-VA 40A
G.W: 0.161KG
CTN: 17.5KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

ZS2-VA 63A
G.W: 0.183KG
CTN: 19.5KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

Technical Data

Protocol	WiFi (Default)
Rated operating voltage range	100V-240V
Control Type	Remote control, Manual
Poles description	1P+N(N Pole Pass-through)
Customization	SigMesh /ZigBee
Model selection	Non-metering Type MeteringType

Main Function

	Remote control
	Voice control
	Timing
	Countdown
	Loop timing
	Real-time monitoring of electricity consumption

WiFi Din Rail Switch
(Smart Life APP)

LED Indicator Description

Non-metering Type

① The LED indicator showa steady blue light to indicate that the switch in ON status.
② The LED indicator showa light out to indicate that the switch in OFF status.
③ The LED indicator show blue flashing to indicate that switch inparing model.

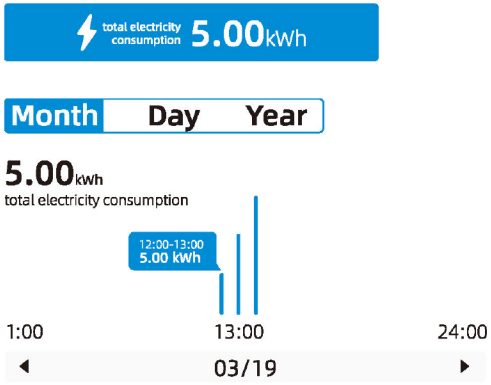
LED Indicator Description

Metering Type

① The LED indicator shows a steady blue light to indicate that the network connectionis successful.
② The LED indicator shows blue flashing slowly, indicating that the product inpairing model.
③ The LED indicator shows a light out, indicating that the device is off-grid model.
④ The Button indicator shows a light up to indicate that the switch is OFF.
⑤ The Button indicator shows a light out to indicate that the switch is ON.

Live View

Can monitor the current, voltage, and power of the load equ-ipment inreal time, and can also record the power consumption of the year, month, day, hour, and different time neriods, helping users to check the power consumption of load equipment more clearly. Setting the switch status of the equipment in different scenarios, and remotely monitor the real-time situation of the load electrical appliances.



Real-time monitoring electricity consumption.

Configuration Steps

First Step:
To connect the wire from the up-per of the WiFi Din Rail Switch, the live wire connect to the L pole, and the neutral wire connect to the N pole, please make sure that the wiring is correct and strong WiFi signal.

Configuration Steps

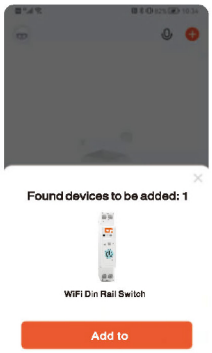
Second Step:

Turn on the Blue tooth and WiFi of the mobile phone, open the APP, and then long press the "power" button, wait for about 5-10 seconds, the LED indicator will flash blue light slowly.

Configuration Steps

Third Step:

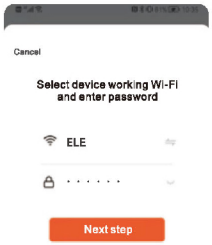
Waiting for a while after graph-ics is displayed the APP, or click the "+" in the upper right corner, then choose the "Add Device" button to wait discovering devices, then click "Add"button.



Configuration Steps

Fourth Step:

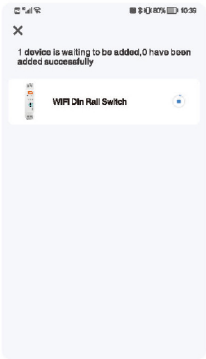
Enter the wifi account password and click next step, wait for the switch to connect the network.



Configuration Steps

Fifth Step:

The switch is connected to the network.



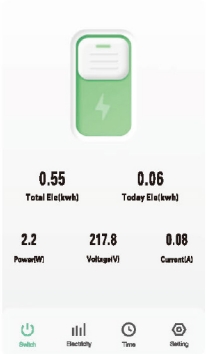
WiFi Din Rail Switch

(Smart Life APP)

Configuration Steps

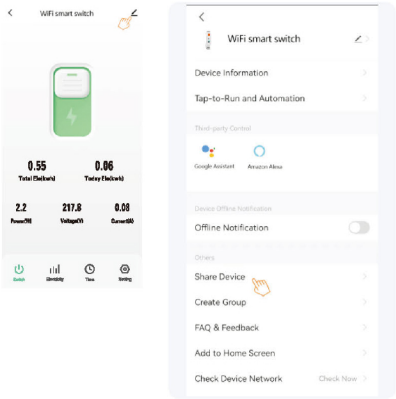
Second Step:

After the successful connection,the LED indicator will be changed from blue slow flashing to blue steady light.



Decice Sharing

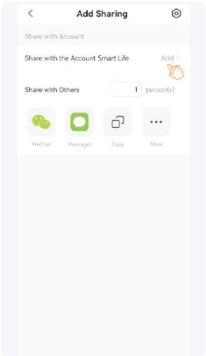
First Step:



Decice Sharing

Second Step:

Click on "share with the Account Smart Life" to type the account you want to share.



INTELLIGENT THREE DISPLAY
MEASURED UNDER VOLTAGE

ZS2-VA 40A
G.W: 0.161KG
CTN: 17.5KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

ZS2-VA 63A
G.W: 0.183KG
CTN: 19.5KG
QTY: 100 PCS
SIZE: 37.5*22.5*37.5cm

Technical Data

Type	Effective value	Unit	Accuracy	Explain
Effective voltage range	AC 80.0~300.0	V	1%	Calibratable, with higher accuracy
Effective current range	AC 0.001~63.00	A	1%	Calibratable, with higher accuracy
Frequency range	35.00~75.00	Hz	1%	Calibratable, with higher accuracy
Timer range	1~9999	S	1%	User Settings
Action time	0.1~10.0	S	1%	User Settings
Active measurement range	0.1~99999999.9	度	1%	0.1 degree counting
Power range	0.1~13860.0	W	1%	Calculated at 220V/63A, the local power consumption is less than 1 watt, and the power consumption is also included in the measurement results
Power factor	0.001~1.000		1%	This parameter is meaningless at low power

Intelligent Three Display
Measured under voltage

Type	Effective value	Unit	Accuracy	Explain
Celsius temperature	-40.0~85.0	℃	1%	Default protector internal temperature, external temperature protector shell needs to reserve hole positions
Fahrenheit	-40~185	℉	1%	Default protector internal temperature, external temperature protector shell needs to reserve hole positions

Function

Function	Explain
Overvoltage protection/switchable	---
Undervoltage protection/switchable	---
Overcurrent protection/switchable	---
Continuous overcurrent count/switchable	---
Temperature protection	Default internal temperature, external temperature protector shell needs to reserve hole positions
Metering	The maximum total measurement is 9999999999.999 degrees, which is obtained from the 0.001 degree meter (NN), 1 degree meter (PC), and 10000 degree meter (HH). Press the +key to switch and view
Multi functional display	Voltage, current, frequency, visible power, active power, power factor, 0.1 ℃/1 ℃/10000 ℃ metering, Celsius temperature, Fahrenheit temperature,+key switching
Knife switch function	When the protection function is turned off, the relay remains in its original state without any further action, but the switch button is still valid
Wide voltage	Overvoltage 130~300V, undervoltage 80~210V
Manual/Automatic Recovery	After manually protecting the output, it must be manually turned on
Energy saving mode	Reduce the brightness of the digital tube to save energy when the protector is not active

Intelligent Three Display
Measured under voltage

Setup Menu

Option code	Option	Max.	Min.	Default	Unit	Explain
P-1	Power on delay	999	1	5	S	
P-2	Recovery delay	999	1	30	S	
P-3	Overvoltage	300	130	270	V	Close overvoltage above 300
P-4	Overvoltage recovery value	295	125	265	V	
P-5	Undervoltage	210	80	170	V	Close undervoltage below 80
P-6	Undervoltage recovery value	215	85	175	V	
P-7	Overvoltage action delay	10.0	0.1	0.5	S	
P-8	Voltage correction	+9.5%	-9.5%	0	V	Suggest keeping the default 0
P-9	Overcurrent protection	63.0	0.1	63.0	A	
P10	Delay of overcurrent action	10.0	0.1	1.0	S	Close overcurrent if it is greater than 63.0
P11	Continuous overcurrent count	20	0	0	次	
P12	Current correction	+9.5%	-9.5%	0	A	0: Turn off counting
P13	Frequency correction	+2.5%	-2.5%	0	Hz	Suggest keeping the default 0
P14	Active power correction (calibration table)	+5.0%	-5.0%	0	KW	Modifying this value will affect the accuracy of the timer
P15	Temperature correction	+5.0%	-5.0%	0	℃	Suggest keeping the default 0
P16	Protection function switch	On	Off	On		On: The protector is working normally Off: The protector has no action
P17	Automatic reset	On	Off	On		On: Self recovery Off: Manual recovery
P18	Energy saving mode	On	Off	On		On: Turn on the digital tube to reduce brightness Off: Close

Intelligent Three Display
Measured under voltage

Other operations

Function	Explain
Switch display	During normal operation, short press the+key to switch displays
Turn on/off	Short press the power button to operate
Set exit	If you want to exit early during the setup process, press the power button briefly to save and exit
Setting error	When setting parameters abnormally, the protector will remain in a protected state. If it cannot be resolved, please contact the factory
Set tuning	+/-Short press the up/down button for 1, long press the up/down button for 10
School Table Reference	When it is necessary to adjust the parameters of the table, please have a professional operate it. The error of the table has been reasonably controlled within+-% 1 and does not need to be adjusted
Local power consumption	The active power consumption of this machine is between 0.2 and 1.0W, and this power consumption is also included in the meter measurement
Pulse light/tachometer	1000imp, 0.001 degree meter can be considered as a tachometer, with 1000 revolutions per minute being 1 degree, which can measure relatively small active power
Regarding Measurement	The measurement results of this machine are for reference only and cannot be used as a basis for standards
Reset settings	Press and hold the power button (4th button) for 5 seconds in standby mode to turn on the device
Clear measurement	Long press and hold the down key (3rd key) for 5 seconds

Power on

Function	Explain
Power on self-test	The digital display shows 8.8.8 when turned on, and the LED indicator light stays on for 1 second
Status display	The first digit of the digital display shows the overvoltage protection status 'y': Enable overvoltage protection '-': Turn off overvoltage protection
	The second digit of the digital display shows the undervoltage protection status 'y': Enable undervoltage protection '-': Disable undervoltage protection
	The third digit of the digital display shows the overcurrent protection status 'y': Enable overcurrent protection '-': Disable overcurrent protection
	Protection function turned off, skipping status display
	Auto reset off, skip status display, power on standby
	The status display is constrained by the power on delay. If the power on delay is greater than 3 seconds, the remaining power on time will be displayed next