



Smart Energy Saving Series

AI Smart Eco System



Works With App



Smart Electrical
Smart Energy



Eco Energy



Energy Saving



Wireless Smart



Energy Monitor



sales@que-qi.com



www.larkkey.com

About Us

70 + Staff

Skilled production and quality control workers

20 + Years

Rich export and manufacturing experience

1000 + Customers

Rich customer's solution and good feedback

5000m² + Area

Rapid order arrangement and dust free workshop

20 + R&D Engineers

Strong R&D capability to meet with various customer's demands

LARKKEY, established in 2015. Before that, Larkkey founders have been in electrical field of manufacturing and exporting since 2003. We focus on research and development of smart home automation and IOT technology. We are committed to the challenges faced by our customers and consistently strive to create values through our solution offerings.

A standout in our product line is our innovative smart energy solutions, the products include smart meters, smart reclosers, smart circuit breakers, smart meter readers etc. All these smart devices help our customers to check real-time electricity usage data on our App and home energy follows for the high energy efficiency. The AI energy scheduling helps users generate the best money-saving strategy with one click.

Another standout in our product line is smart home automation. With over 20 years of experience in manufacturing and exporting switches and sockets, we have rich experience in designing and producing different standard smart switches and sockets for different markets. By combining robust electrical protection with advanced connectivity, data analytics and amazing designs, our smart switches and sockets are at the forefront of electrical safety innovation and trend. And also we helping our clients to enhance their good brand reputation, maintain repeat orders, providing the end user with the high good use experience.

With a strong R&D team, we provide not only OEM and ODM service, but also customized services including industrial design, icon design, and SKD supply. With high quality, unique design and high-end smart home products, LARKKEY has established a wide and strong partnership with hundreds of brands all over the world.

Production Capability

Our robust manufacturing capacity ensures we can meet diverse customer demands efficiently and at scale.

Workshop Overview

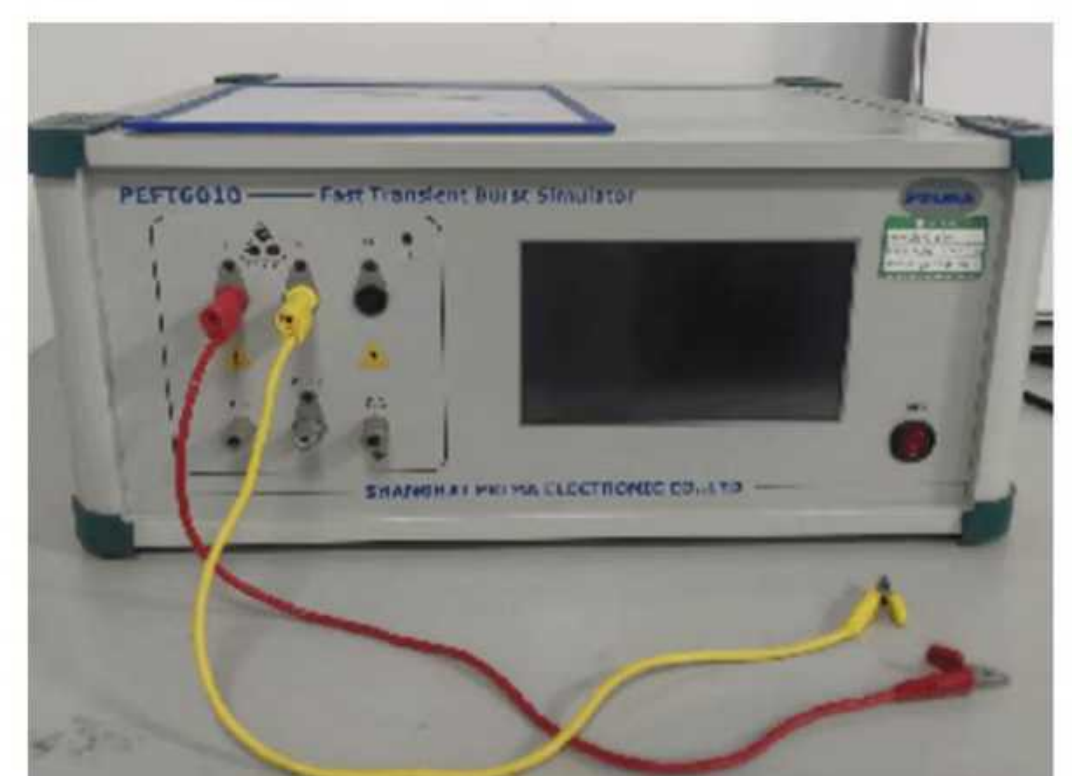
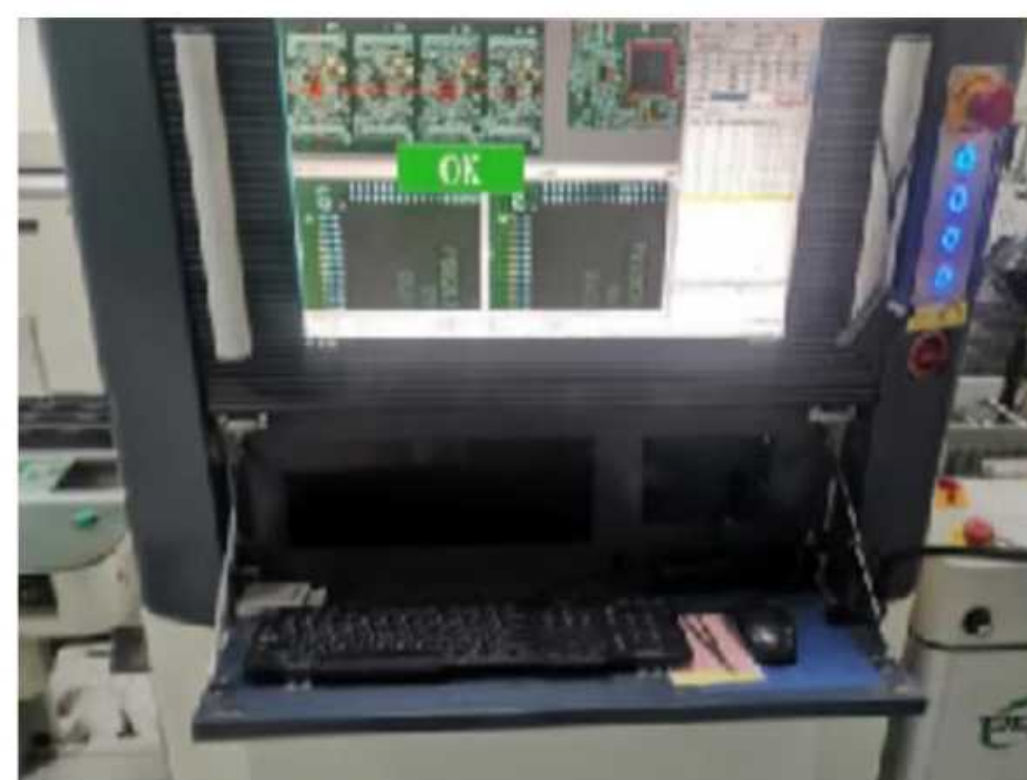
- SMT Lines: 6 lines with a capacity of 131.95 million points per month.
- DIP Lines: 3 lines with a capacity of 15.91 million points per month.
- PCBA Assembly: Total capacity of 900,000 units per month.
- Final Product Assembly: 3 lines with a capacity of 200,000 finished products per month.
- Facility: A 4,000 m² dust-free workshop.



Reliable Test

Reliable Test will guarantee that our products are of outstanding and superior quality.

Test Machines& Aging Test



Why Us?

We have the strong cost control system which can guarantee that our cost will be the lowest.

Our Cost Advantage

Other Competitors' Cost

TUYA's chip cost	X Higher,with TUYA's common prices
Product's PCBA cost	X Higher,buy from PCBA solution providers
Fitting Material Cost	X Higher,fitting material buy from other suppliers

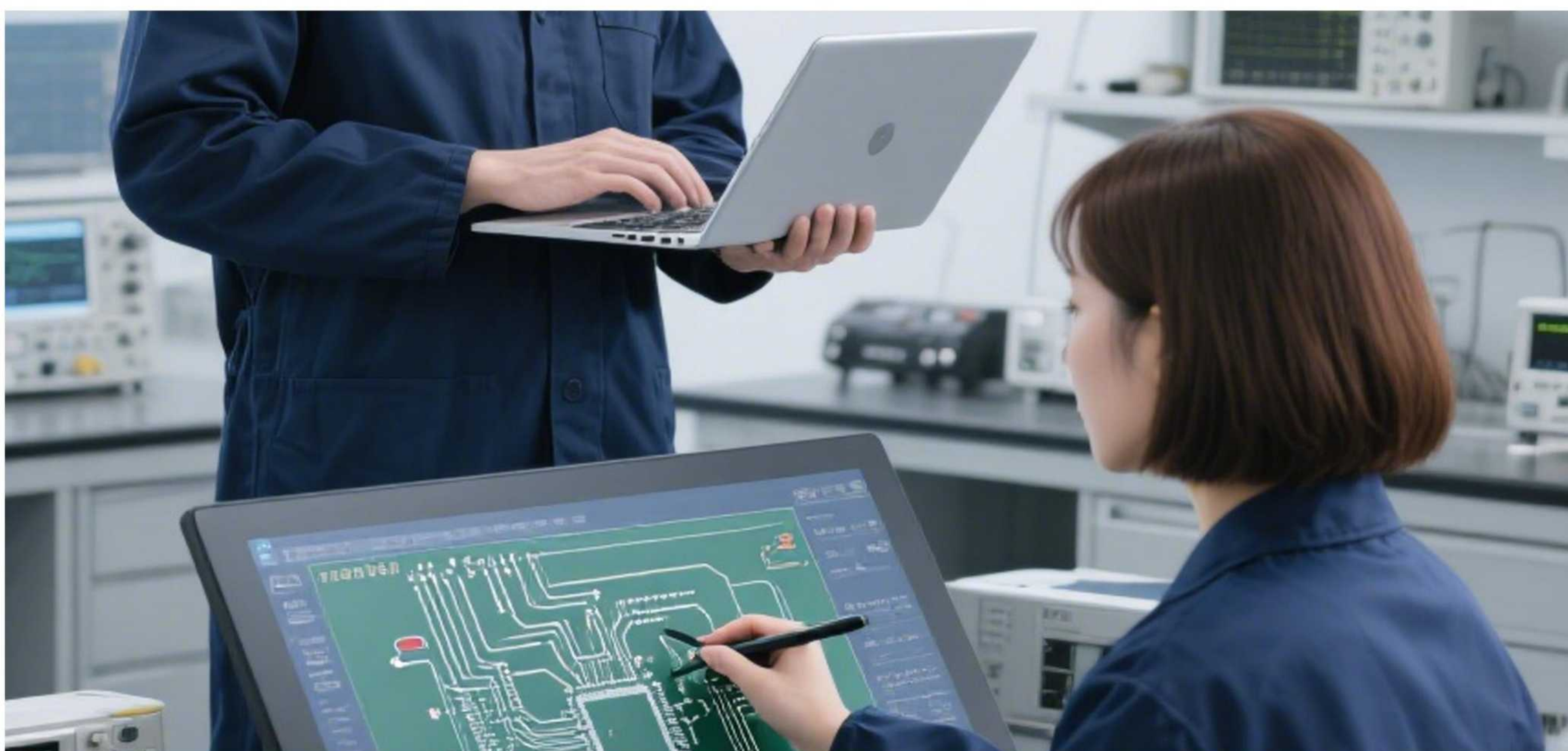
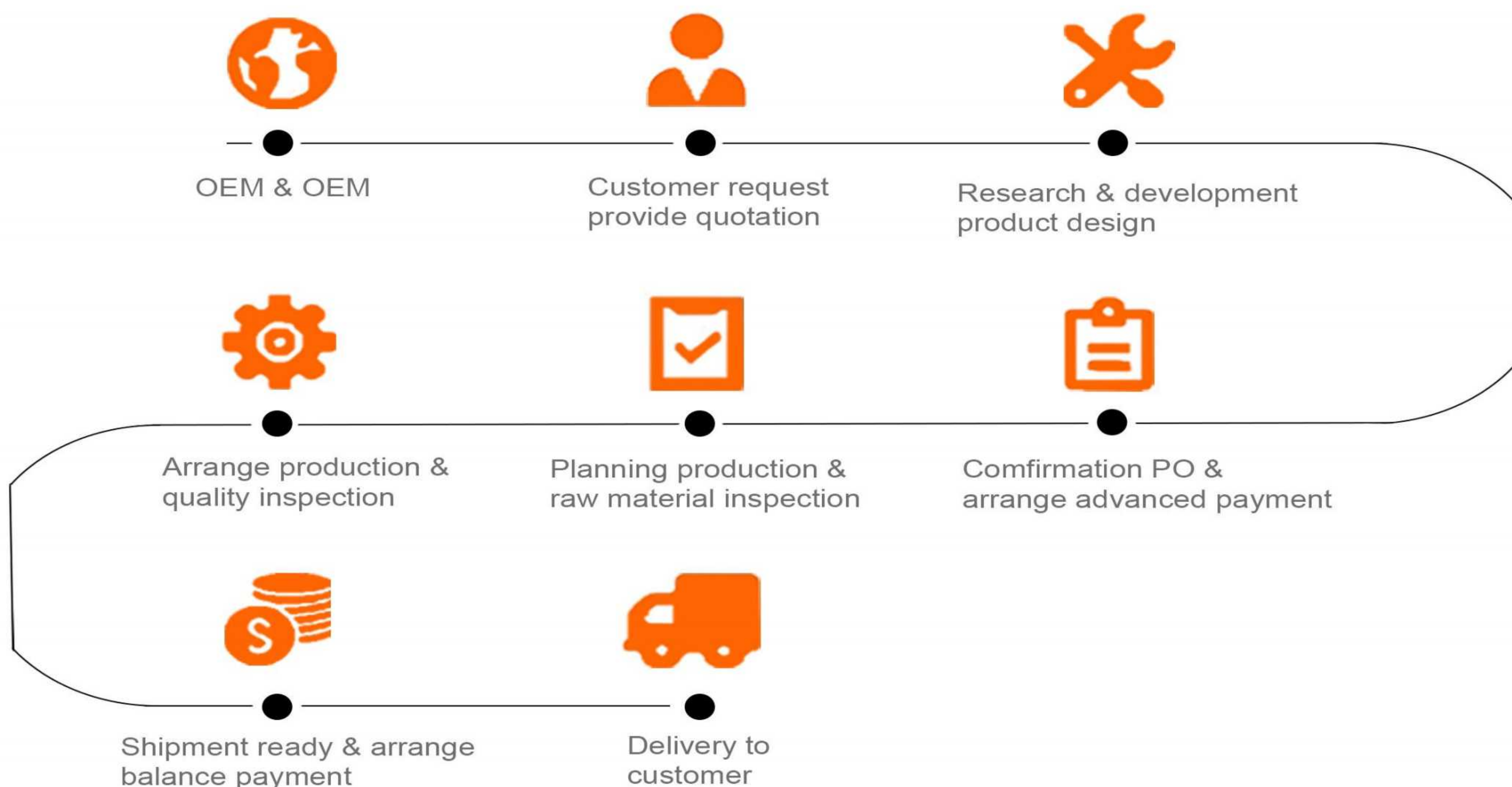
Our Factory's Cost

TUYA's chip cost	✓ Lower, with TUYA VIP crown prices
Product's PCBA cost	✓ Lower, solution by ourselves
Fitting Material Cost	✓ Lower,fitting materials made by ourselves

Why Us?

We have more than 20 R&D engineers with over 10 years' experience, offering customized firmware and hardware for Tuya solutions.

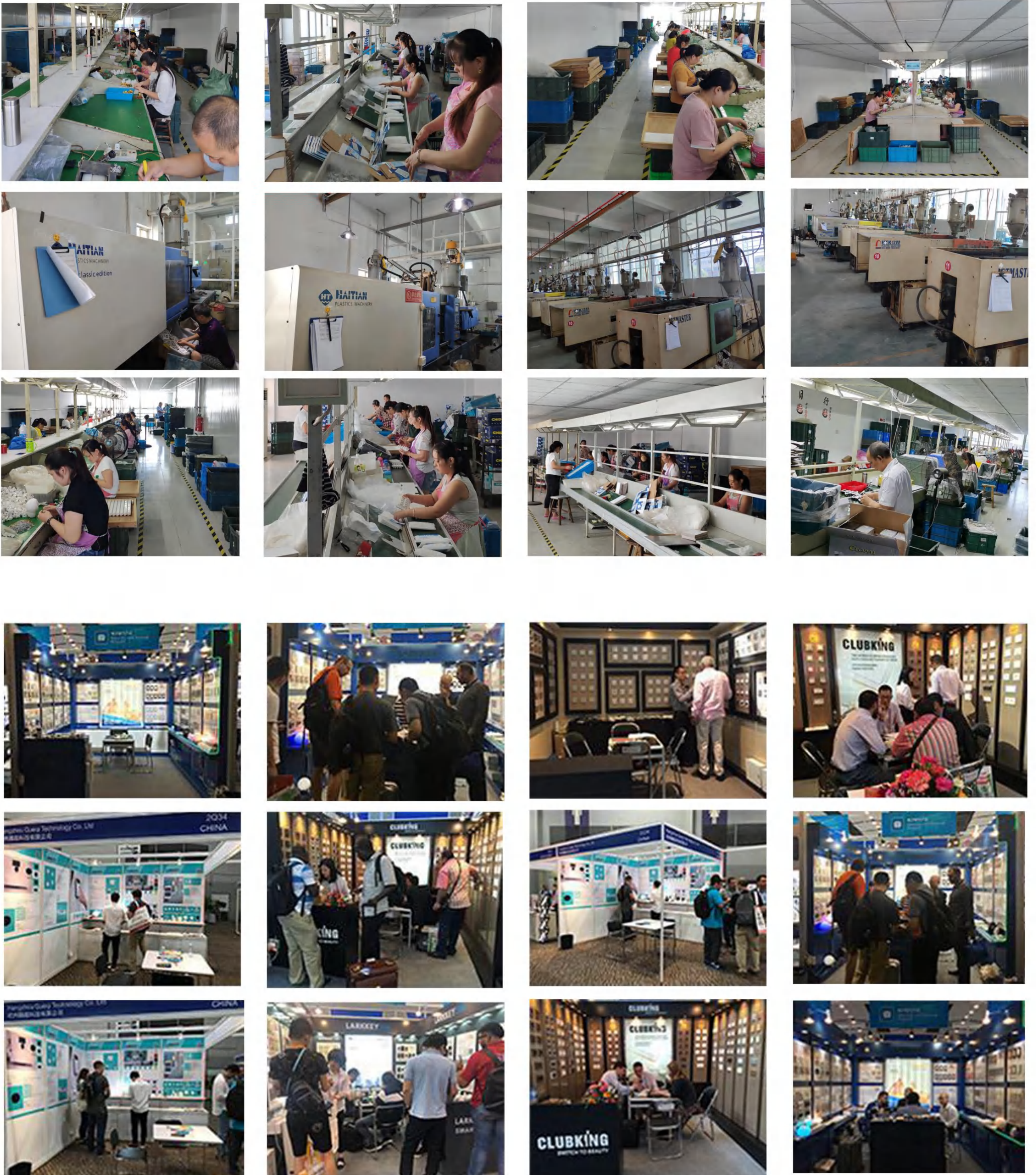
Strong OEM ODM And R&D Development



Why Us?

Switch socket manufacturing and exporting since 2003.
Smart home products manufacturing since 2015.

Rich Manufacturing And Exporting Experience



Smart Power Monitoring and Metering Devices



The simple and reliable solution
with Tuya connectivity

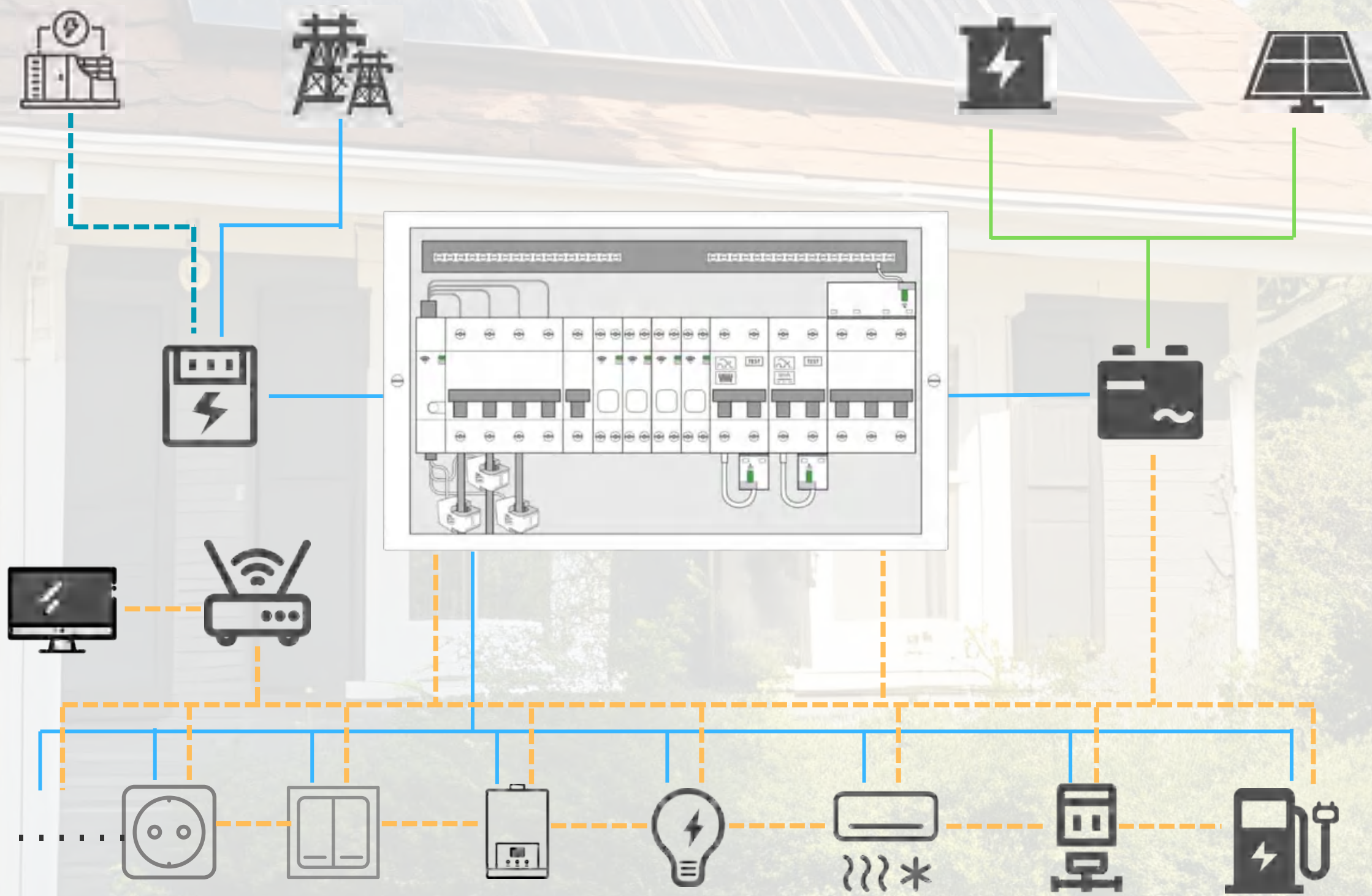
Featured Application

Home Energy Management System

Retrofit-ready Power Monitoring & Metering Devices (PMDs) for smarter, connected energy systems.

Our smart PMDs integrate into existing electrical panels and boxes, working with inverters, batteries, appliances, and smart home hubs to enable intelligent energy monitoring and control. No need to replace the distribution box, breakers, or sockets—just install, connect, and optimize.

- AC Network
- DC Network
- Home Communication
- Infrastructure Communication

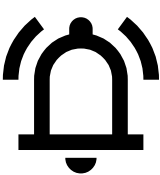


Customer Benefits



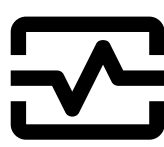
Energy Saving

Track total and individual appliance power usage to identify savings opportunities. AI-assisted analysis helps reduce waste and supports automatic optimization.



Risk Alarming

Get instant alerts on abnormal events like over-voltage, high consumption, or device faults—sent directly to your mobile device.



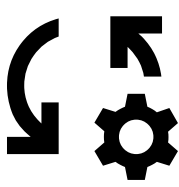
Predictive Diagnosis

Use AI-powered pattern recognition to detect early signs of aging circuits or abnormal device behavior—reducing maintenance and fire risks.



Appliance control

Remotely switch appliances on/off based on schedule, usage patterns, or real-time power availability, improving convenience and efficiency.



Export Limitation

Automatically regulate inverter output to prevent overfeeding the grid, ensuring compliance with utility requirements.



Dynamic Load Balancing

Balance household loads in real time to avoid overloads and improve the utilization of renewable or battery sources.



All the Zigbee devices in this catalogue can be connected to Home Assistant via Zigbee2Mqtt.

QQ-TYWFMM

WiFi Reclosing Protector Multi Function Meters (On Off+Metering+VA Protection)

Function

- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status
- ◆ Energy Monitoring
- ◆ Real-time Voltage, Real-time Current, Active Power, Reactive Power, Apparent Power, Power Factor
- ◆ Over/Under Voltage Protection
- ◆ Over Current Protection
- ◆ High Temperature Protection
- ◆ Overload Protection
- ◆ Expense Management
- ◆ Delay Protection

LED Indicator

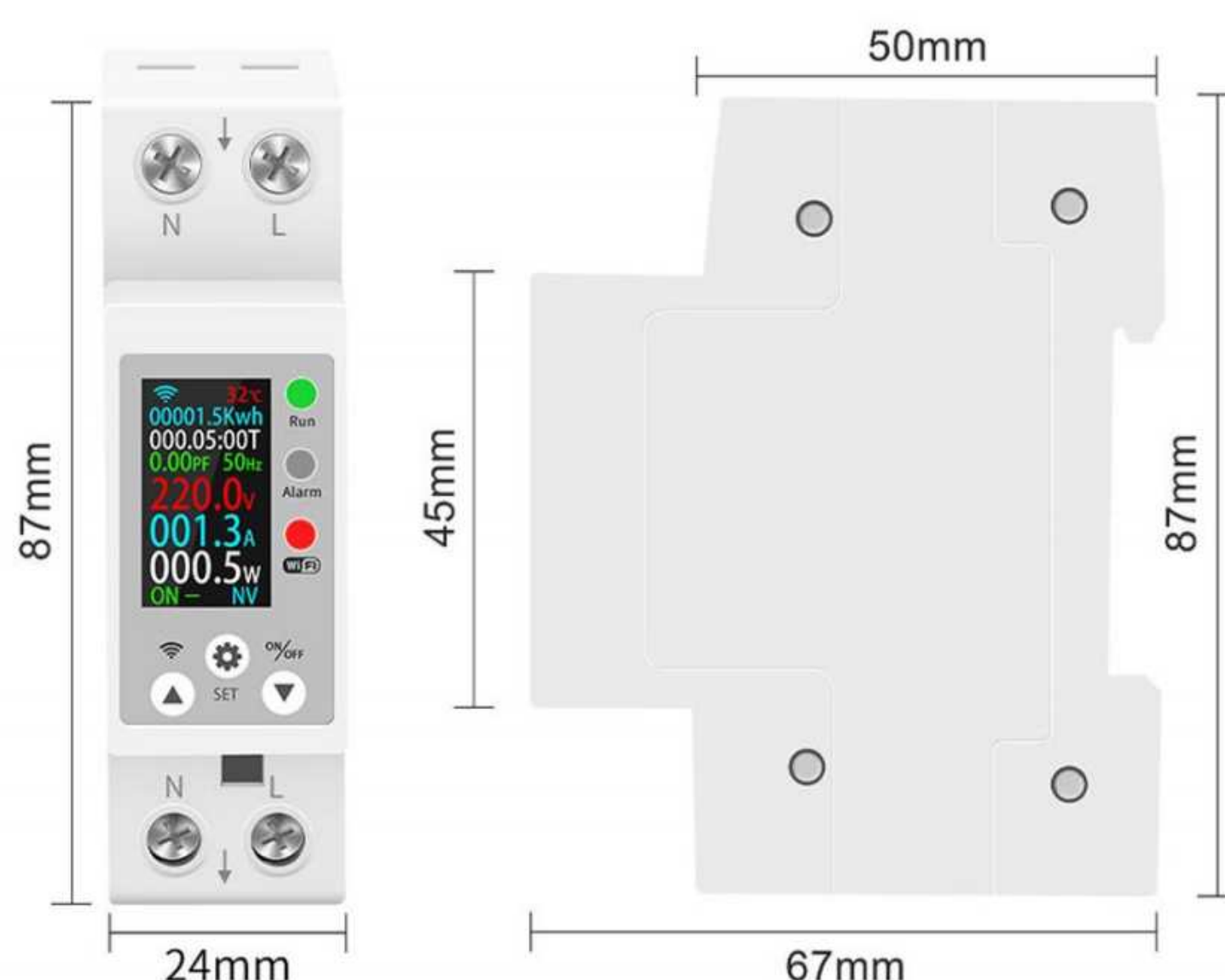
- The LED indicator flashing red indicates the device is in pairing mode.
- The LED solid red shows the network is connected.
- The LED off indicates no network connection.



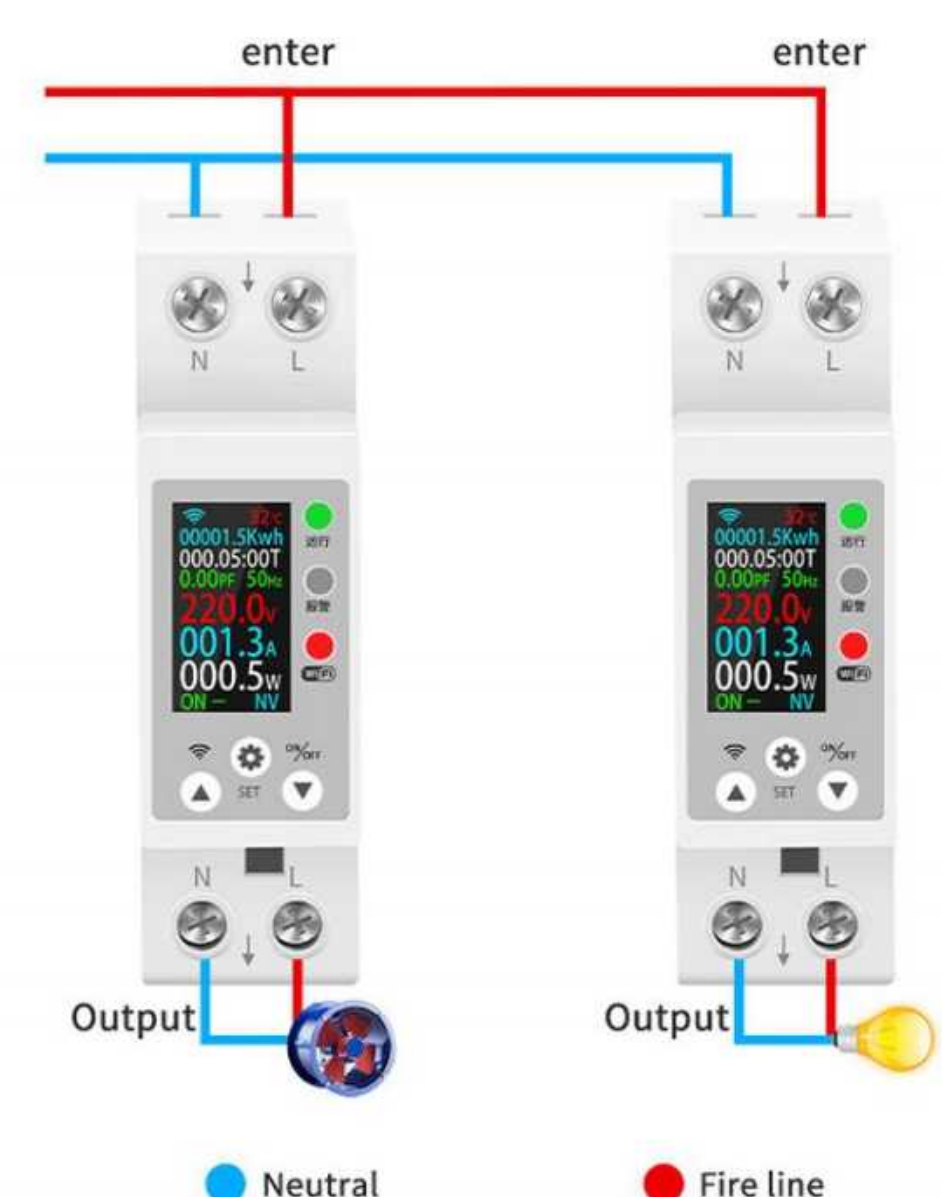
Technical Data

Rate Voltage	80V-300V AC,50/60Hz
Electrical Life	10 ⁵
Protection Level	IP30
Over-current Setting Parameter Range	1-63A
Protocol	Wi-Fi(2.412-2.484GHZ) IEEE 802.11b/g/n
Output Contacts	1NO

Product Size



Wiring Diagrams



IQD1104 (WIFI)

single phase din rail type WIFI remote control energy meter

The meter is designed to measure single phase two wire AC active energy and variable parameter like residential, utility and industrial application. It can remote read from WIFI communication (Smart life or Tuya smart APP) . It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

Basic Function

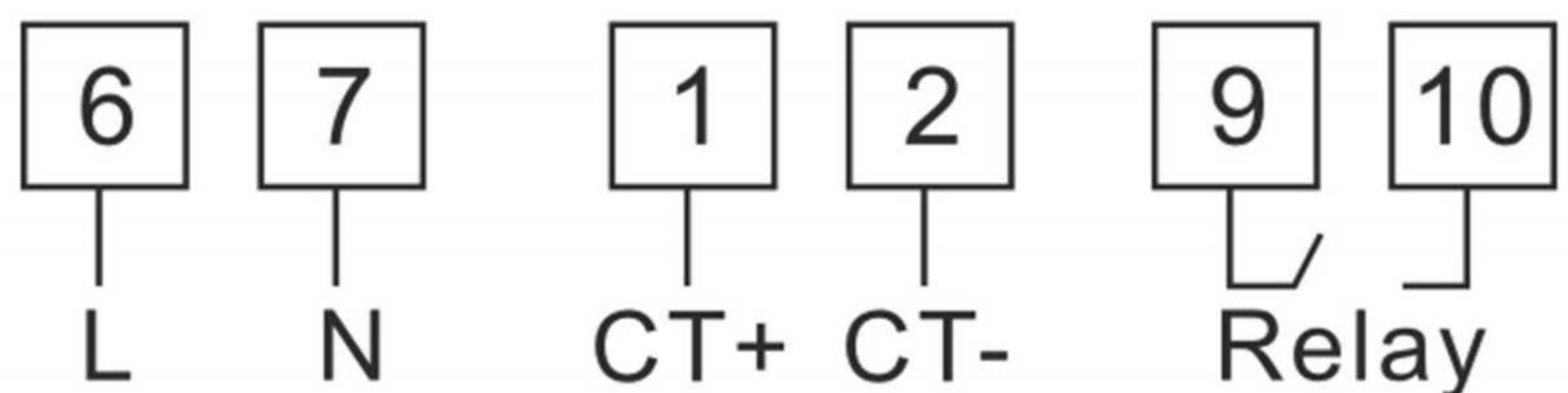
- LCD display, button for LCD display step by step
- Bi-directional total active energy, reverse active energy measure in the total energy
- The meter also display real voltage, current, active power, reactive power , power factor, frequency
- Timing and delay control by APP
- History active energy consumption tracking by APP
- Check the real current ,voltage active power by APP
- Remote control on/off by APP , the meter have replay signal output to control AC contactor
- Clamp CT connection , easy for installation
- Pulse LED indicates working of meter, Pulse output with optical coupling isolation
- Energy data can be stored in the memory chip for more than 15 years after a power loss
- Active energy will keep in meter memory chip when WIFI connect failed . it will not lose and will upgrade after WIFI connection again
- 18mm width only 1 pole MCB dimension , 35mm din rail installation

Technical Data

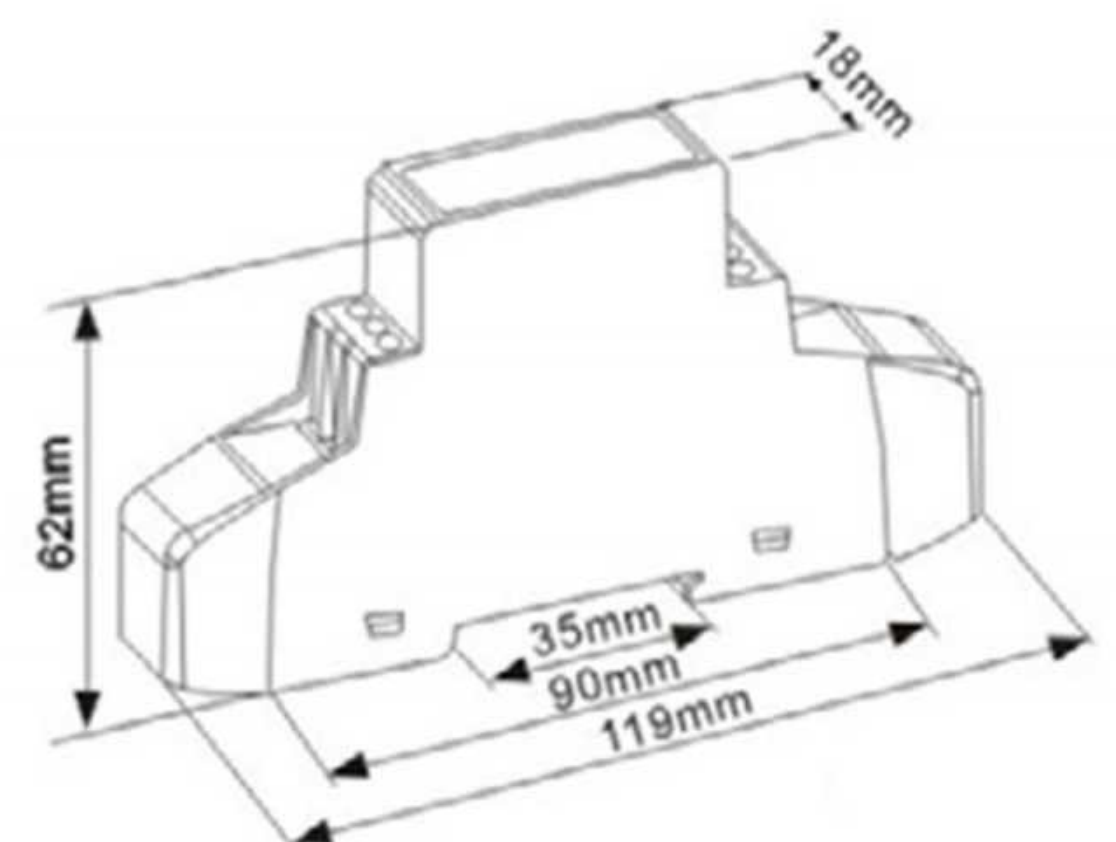
Rate Current / Frequency	10(100)A / 50Hz or 60Hz±10% Also can special order 100A or bigger clamp CT				
Rate Voltage AC	85 ~ 300V (L-N)	AC Voltage Withstand	4000V/25mA for60s	IP Grade	IP20
Work Temperature	-25℃ ~ 70℃	Over Current Withstand	30Imax for 0.01s	WIFI	802.11b/g/n
Connection Mode	Indirect type	Executive Standard	IEC62053-21	Accuracy Class	1%
Power Consumption	<2W/10VA	Pulse Output	Passive pulse, 80±5 ms	Start Current	0.004Ib



Wire Connection



Outline Dimension



I QD1105 (WIFI)

single phase three wire din rail type WIFI energy meter

The meter is designed to measure single phase three wire AC active energy and variable parameter like residential, utility and industrial application in South America or North America. It can remote read from WIFI communication . It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

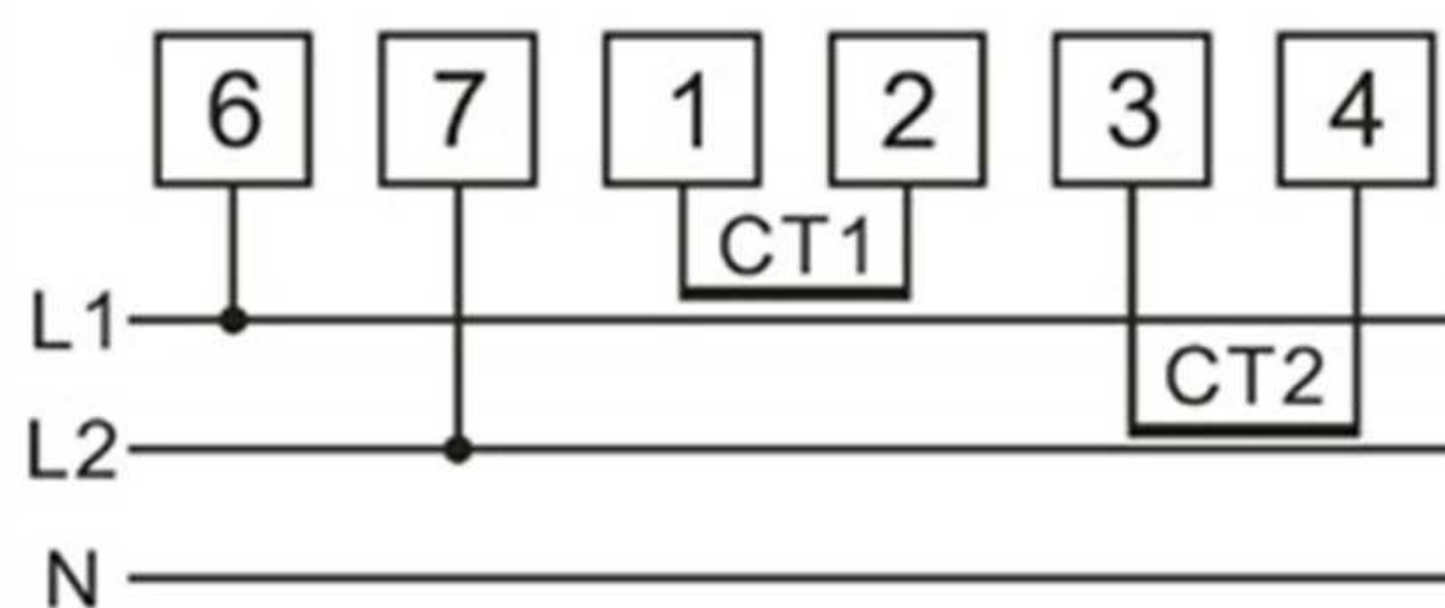
Basic Function

- LCD display, button for LCD display step by step
- Bi-directional total active energy, reverse active energy measure in the total energy
- The meter also display real conjunction phase voltage, conjunction phase active power, L1 line current, frequency
- Hour/Day/Month/Year history of total/import/export active energy consumption tracking by APP, and also can output excel 30 days active energy records by email.
- Check the real conjunction phase voltage, conjunction phase active power, L1/L2line current by APP
- It have active power 15minutes interval curve only one day
- App has password protected setting/Carbon emissions setting/ electric cost fee setting/ reset energy to zero setting
- Energy data can store in memory chip more than 15 years after power off
- Active energy will keep in meter memory chip when WIFI connect failed . it will not lose and will upgrade after WIFI connection again
- Clamp CT connection , easy for installation
- 18mm width only 1 pole MCB dimension , 35mm din rail installation

Technical Data

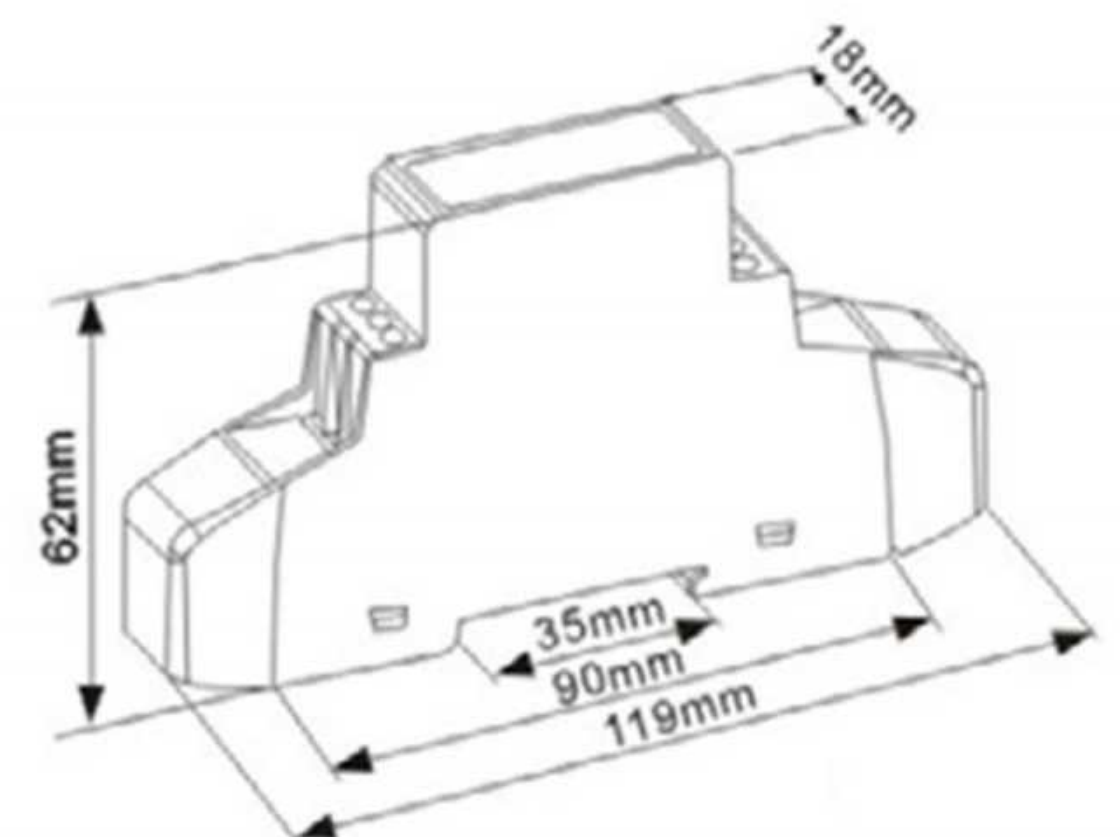
Rate Current / Frequency	10(100)A / 50Hz or 60Hz±10% Also can special order 200A or bigger clamp CT				
Rate Voltage AC	110/220V (L1-L2 90 ~ 300V) FM2S 3 WIRE L1 and L2 line pass through meter, N line not pass through meter 110/220V (L1-N=110V L2-N=110V L1-L2=220V)				
Led Pulse Output	Passive pulse, 80±5 ms	AC voltage withstand	4000V/25mA for60s		
Work Temperature	-25℃ ~ 70℃	Over Current Withstand	30Imax for 0.01s	WIFI	802.11b/g/n
Connection Mode	Indirect type	Executive Standard	IEC62053-21	Accuracy Class	1%
Power Consumption	<2W/10VA	IP Grade	IP20	Start Current	0.004Ib 40mA

Wire Connection



Note: N line not connect on the meter terminal

Outline Dimension



I QD1106 (ZIGBEE)

single phase din rail type Zigbee remote control energy meter

The meter is designed to measure single phase two wire AC active energy and variable parameter like residential, utility and industrial application. It can remote read from Zigbee communication (Smart life or Tuya smart APP) . It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

Basic Function

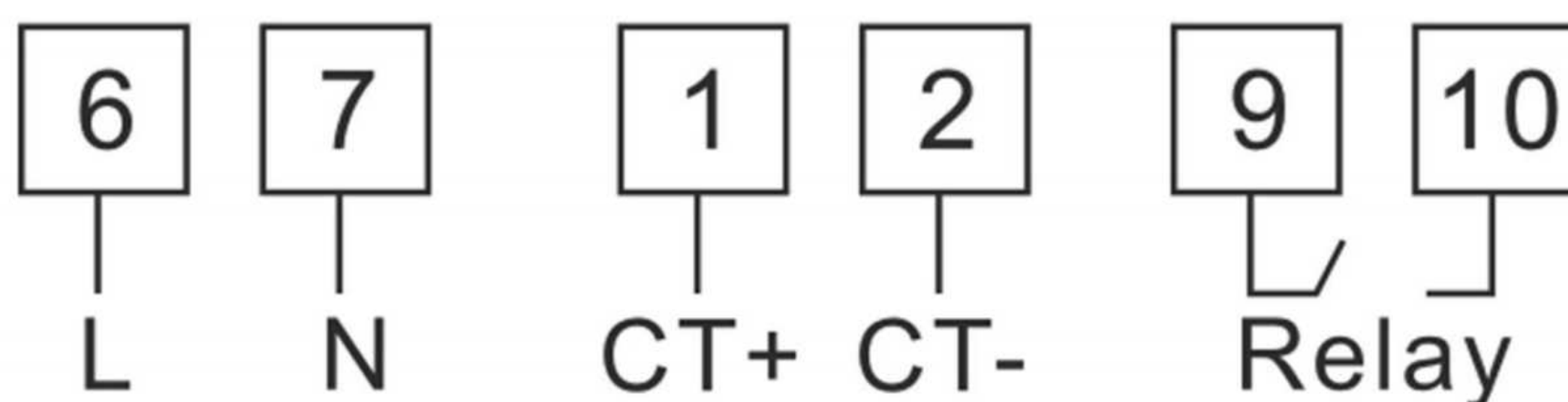
- LCD display, button for LCD display step by step
- Bi-directional active energy measure, import/export active energy display separately on meter LCD
- The meter also display real voltage, current, active power, reactive power , power factor, frequency
- Timing and delay control by APP
- Day/Month/Year history active energy consumption tracking by APP
- Check the real current ,voltage active power by APP
- Remote control on/off by APP, the meter have relay signal output to control AC contactor
- Zigbee communication, can read and remote control by mobile phone APP
- It should connect with TUYA Zigbee gateway
- It can directly compatible with TUYA Saas system
- Manual Control by button under lose Zigbee
- Pulse LED indicates working of meter, Pulse output with optical coupling isolation
- Active energy will be stored in the meter's memory chip when the WiFi connection fails. It will not be lost and will be updated once the Zigbee connection is restored.
- Clamp CT connection , easy for installation
- 18mm width only 1 pole MCB dimension , 35mm din rail installation

Technical Data

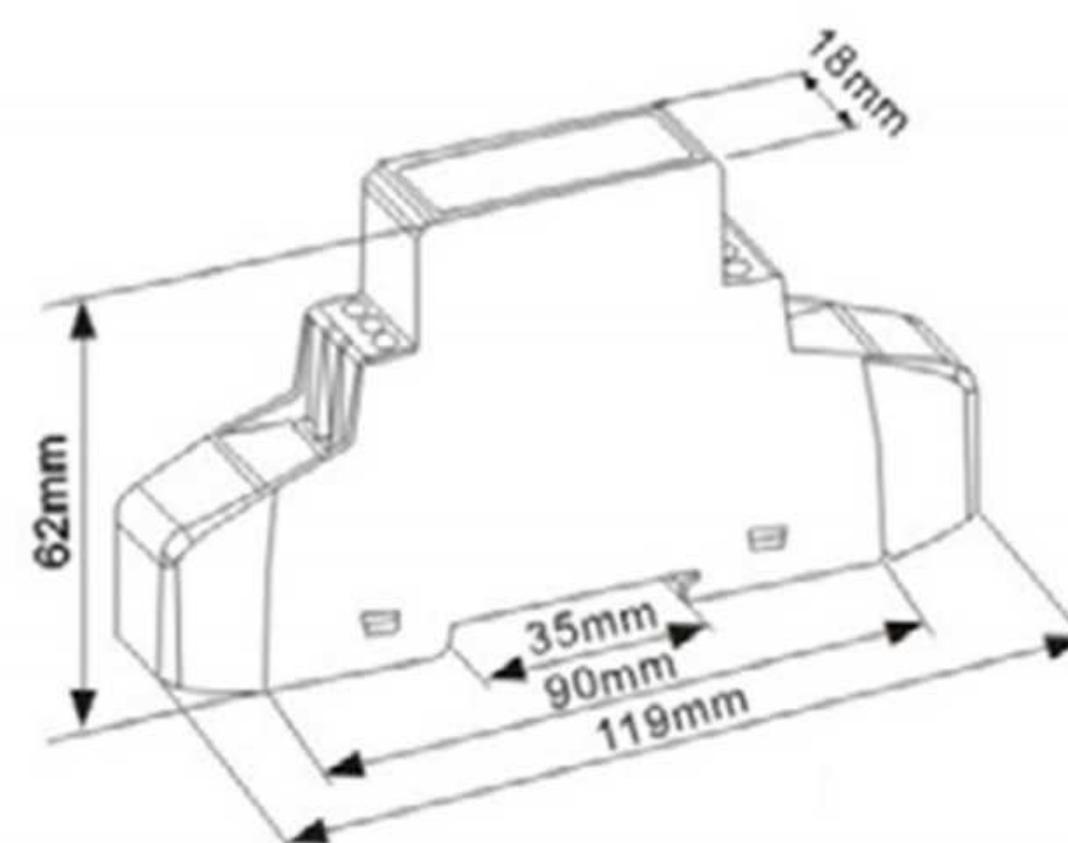
Rate Current / Frequency	10(100)A / 50Hz or 60Hz±10% Also can special order 200A or bigger clamp CT				
Rate Voltage AC	85 ~ 300V (L-N)	AC Voltage Withstand	4000V/25mA for60s	IP Grade	IP20
Work Temperature	-25℃ ~ 70℃	Over Current Withstand	30Imax for 0.01s	Zigbee	IEEE802.15.1
Connection Mode	Indirect type	Executive Standard	IEC62053-21	Accuracy Class	1%
Power Consumption	<2W/10VA	Pulse Output	Passive pulse, 80±5 ms	Start Current	0.004Ib



Wire Connection



Outline Dimension



I QD1216 (WIFI) /QD1217 (ZIGBEE)

single phase din rail type WIFI/Zigbee remote control energy meter(IVAP)

The meter is designed to measure single phase two wire AC active energy and variable parameter like residential, utility and industrial application. It can remote read from WIFI/Zigbee communication (Smart life or Tuya smart APP). It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

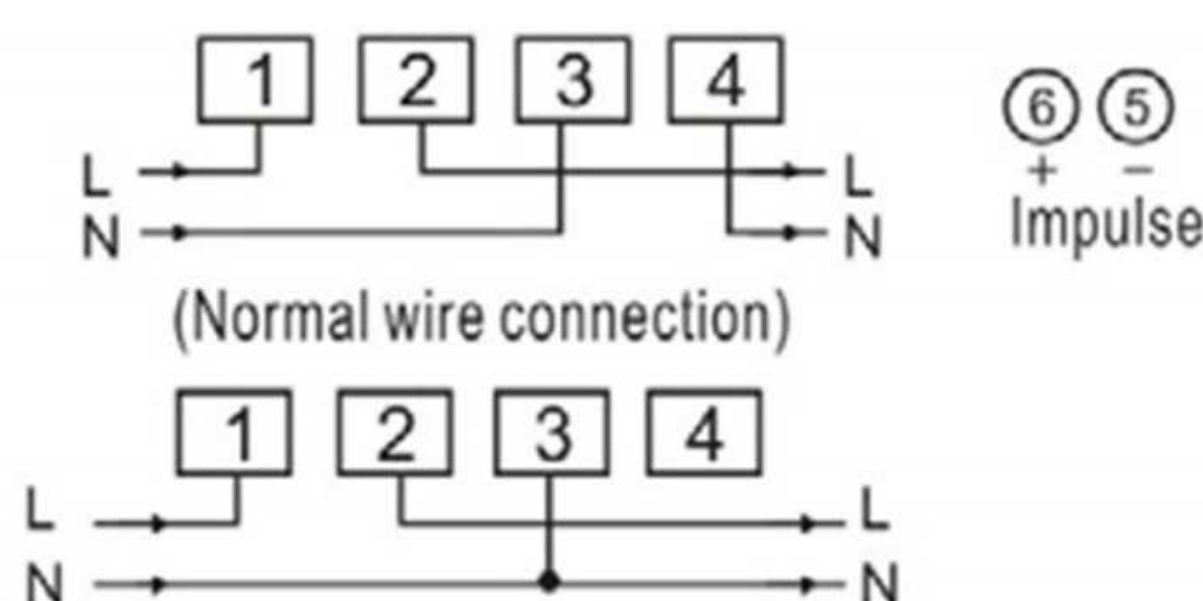
Basic Function

- LCD display, button for LCD display step by step
- Bi-directional active energy measure, import/export active energy display separately on meter LCD and APP
- The meter also display real voltage, current, active power, reactive power , power factor, frequency on meter LCD and APP
- Timing and delay control by APP
- Hour/Day/Month/Year history of total/import/export active energy consumption tracking by APP, and also can output excel 30 days active energy records by email.
- Remote control on/off by APP, it also has manual Control on/off by button under lose WIFI/Zigbee network.
- Prepayment function ,if balance used up, it will cut off automatic. This function can be on/off by hand.
- It have over-voltage and over load protection, it can set value from APP .Each protection function can be opened/closed as customer requirement
- It have active power 15minutes interval curve only one day
- Voice control on/off function
- Alarm event records and on/off operation records on APP
- App has password protected setting/Carbon emissions setting/ electric cost fee setting/ reset energy to zero setting
- 35mm din rail installation

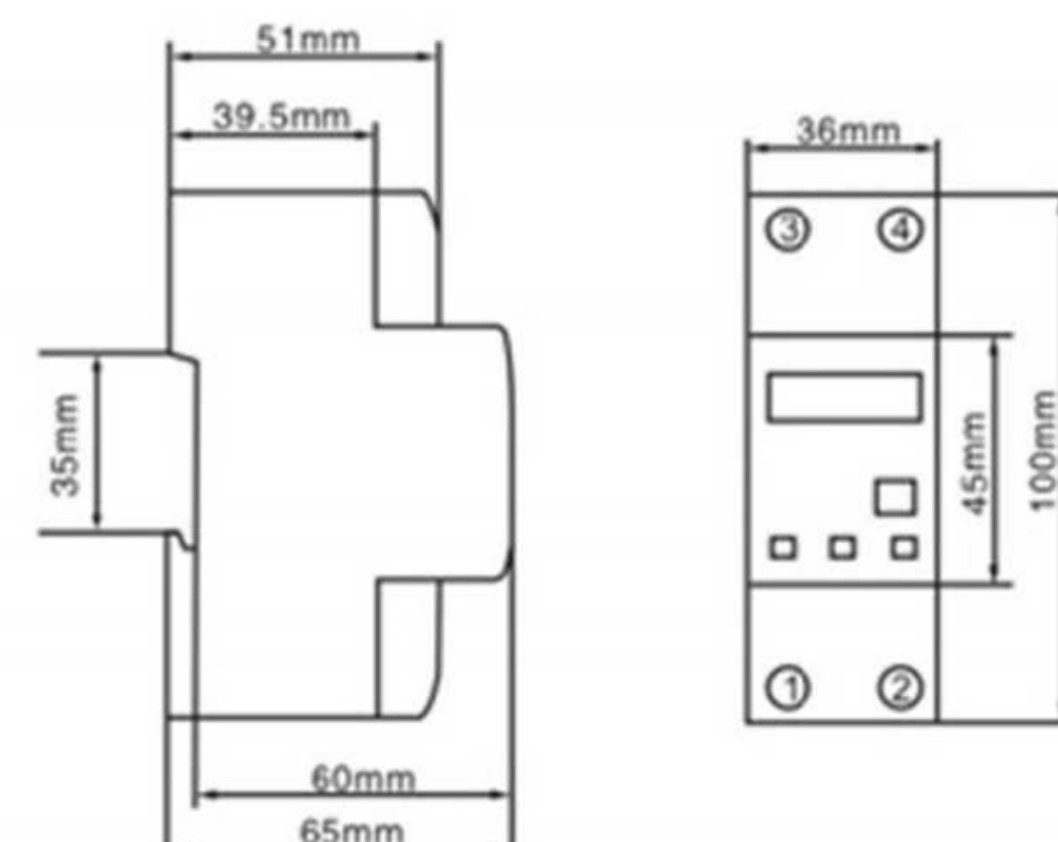
Technical Data

Rate Current / Frequency	5(65)A /50Hz or 60Hz±10%				
Rate Voltage AC	90-300V (L-N)	AC Voltage Withstand	4000V/25mA for60s	IP Grade	IP20
Work Temperature	-25℃～ 70℃	Over Current Withstand	30Imax for 0.01s	Executive Standard	IEC62053-21 DIN 43880
Connection Mode	Direct type	Operation Frequency	WiFi:WiFi 802.11 b/g/n Zigbee:IEEE 802.15.4	Accuracy Class	1% or 0.5%
Power Consumption	<2W/10VA	Pulse Output	Passive pulse, 80±5 ms	Start Current	0.004Ib

Wire Connection



Outline Dimension



I QD3715 (WIFI) /QD3716 (ZIGBEE)

three phase din rail type WIFI/Zigbee remote control energy meter(IVAP)

The meter is used in three phase four wire power grid. The meter is designed to measure AC active energy and variable parameter. It has remote read by WIFI/Zigbee (Smart life or Tuya smart APP) . It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume .

Basic Function

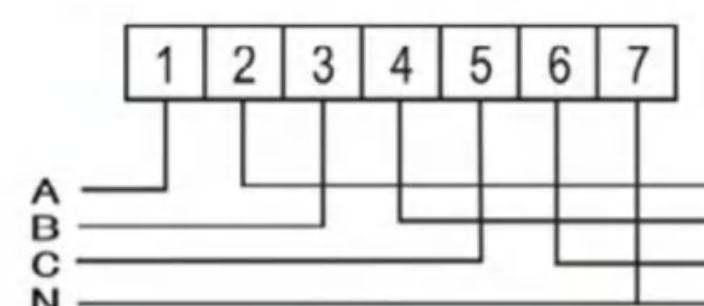
- LCD display with backlight , keypad for LCD display step by step
- Bi-directional active energy measure, import/export active energy display separately on meter and APP
- The meter also display real voltage, current, active power, reactive power , power factor, frequency,temperature, import active energy, export active energy, reactive energy on LCD and APP
- Timing and delay control by APP
- Hour/Day/Month/Year history of total/import/export active energy consumption tracking by APP, and also can output excel 30 days active energy records by email.
- Remote control on/off by APP, it also has manual Control on/off by button under lose WIFI network
- Prepayment function ,if balance used up, it will cut off automatic. This function can be on/off by hand.
- It have over-voltage/under-voltage/over load protection, it can set value from APP .Each protection function can be opened/closed as customer requirement
- It have active power 15minutes interval curve only one day
- Voice control on/off function
- Alarm event records and on/off operation records on APP
- App has password protected setting/Carbon emissions setting/ electric cost fee setting/ reset energy to zero setting
- Lose phase indication , and still measure lose one or two phase under three phase four wire connection
- Pulse LED indicates working of meter, Pulse output with optical coupling isolation
- 35mm din rail installation , bottom type wire connection

Technical Data

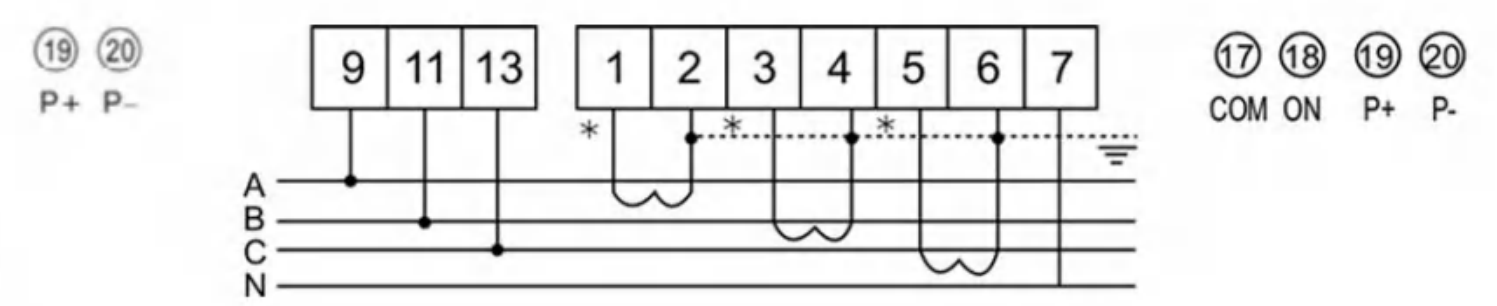
Rate Current / Frequency	5(60)A,10(80)A directly connection or connect through outer 100A clammer CT or 200A clamp CT or 5A/CT / 50Hz or 60Hz±10%				
Rate Voltage AC Wide Range Working	3x120/208V, , 3x230/400V, x240/415V (0.8 ~ 1.2Un) 1 meter all can used under different voltage				
Rate Voltage AC	90-300V (L-N)	AC Voltage Withstand	4000V/25mA for60s	IP Grade	IP20
Work Temperature	-25℃ ~ 70℃	Over Current Withstand	30Imax for 0.01s	Executive Standard	IEC62053-21 IE62052-11
Connection Mode	CT or Direct type	Operation Frequency	WiFi:WiFi 802.11 b/g/n Zigbee:IEEE 802.15.4	Accuracy Class	1% or 0.5%
Power Consumption	<2W/10VA each phase	Pulse Output	Passive pulse, 80±5 ms	Start Current	0.004Ib

Wire Connection

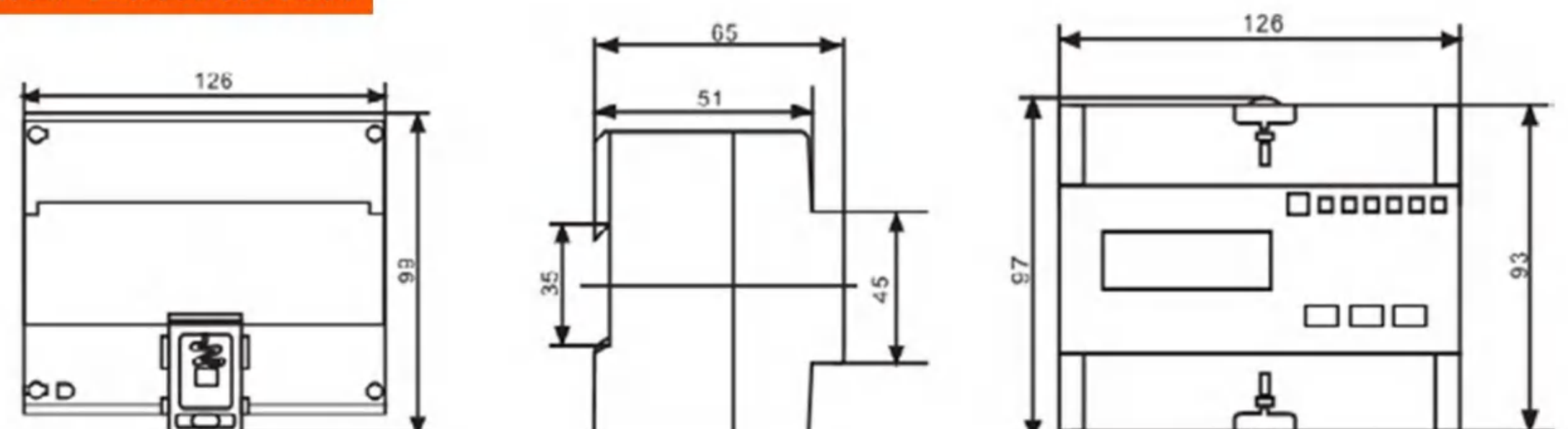
(1) Three phase four wire direct connection



(2) Three phase four wire through current transformer connection



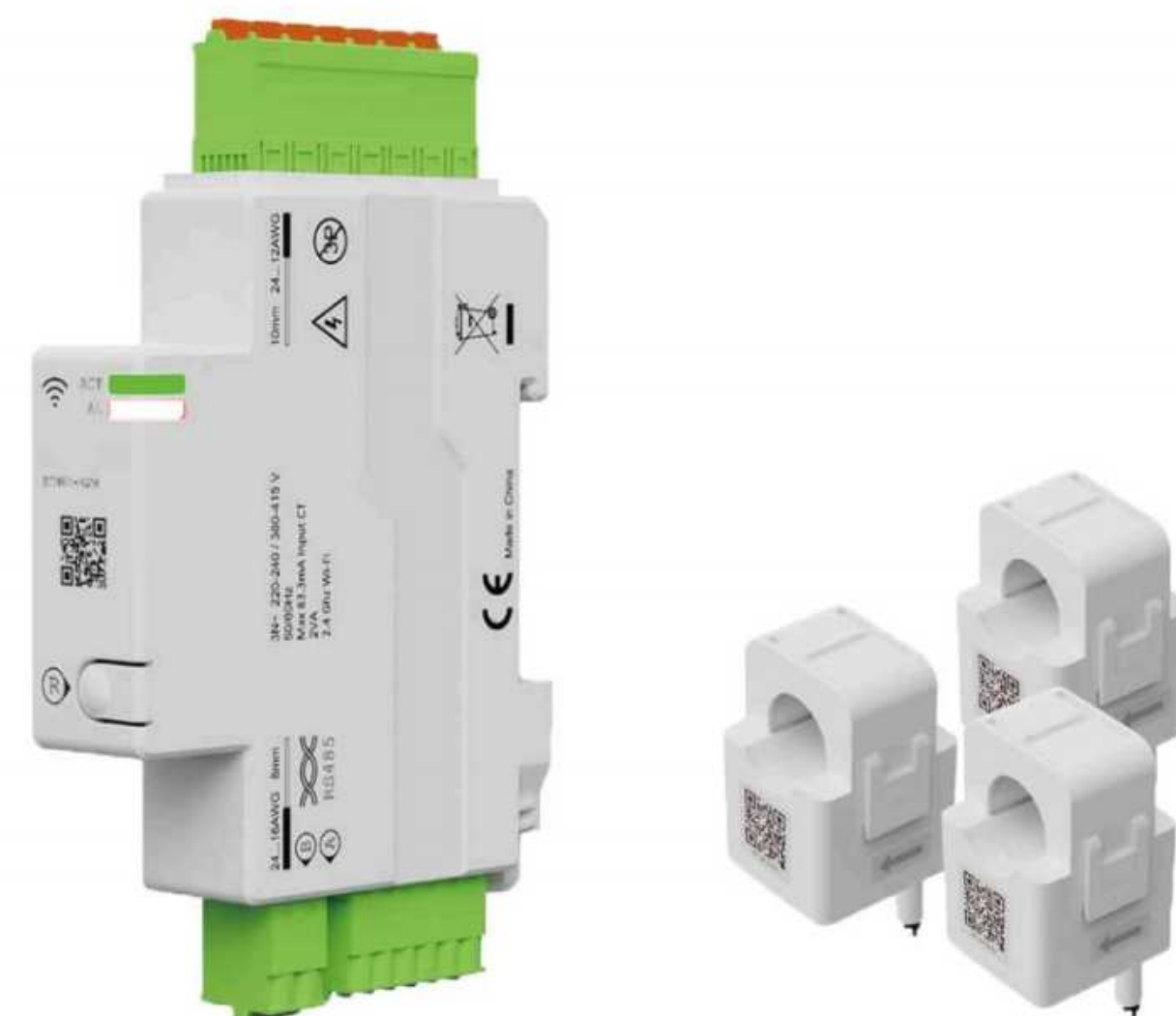
Outline Dimension



QQSDM01

Three-Phase Compact Energy Meter with Clamp CTs

The Combo is a compact 18mm-wide DIN-rail smart energy meter designed for real-time monitoring of three-phase systems or multiple single-phase branches. Equipped with three split-core CTs, it accurately measures voltage, current, power, and energy. It supports both wired and wireless communication for flexible and seamless system integration.



Ordering Code

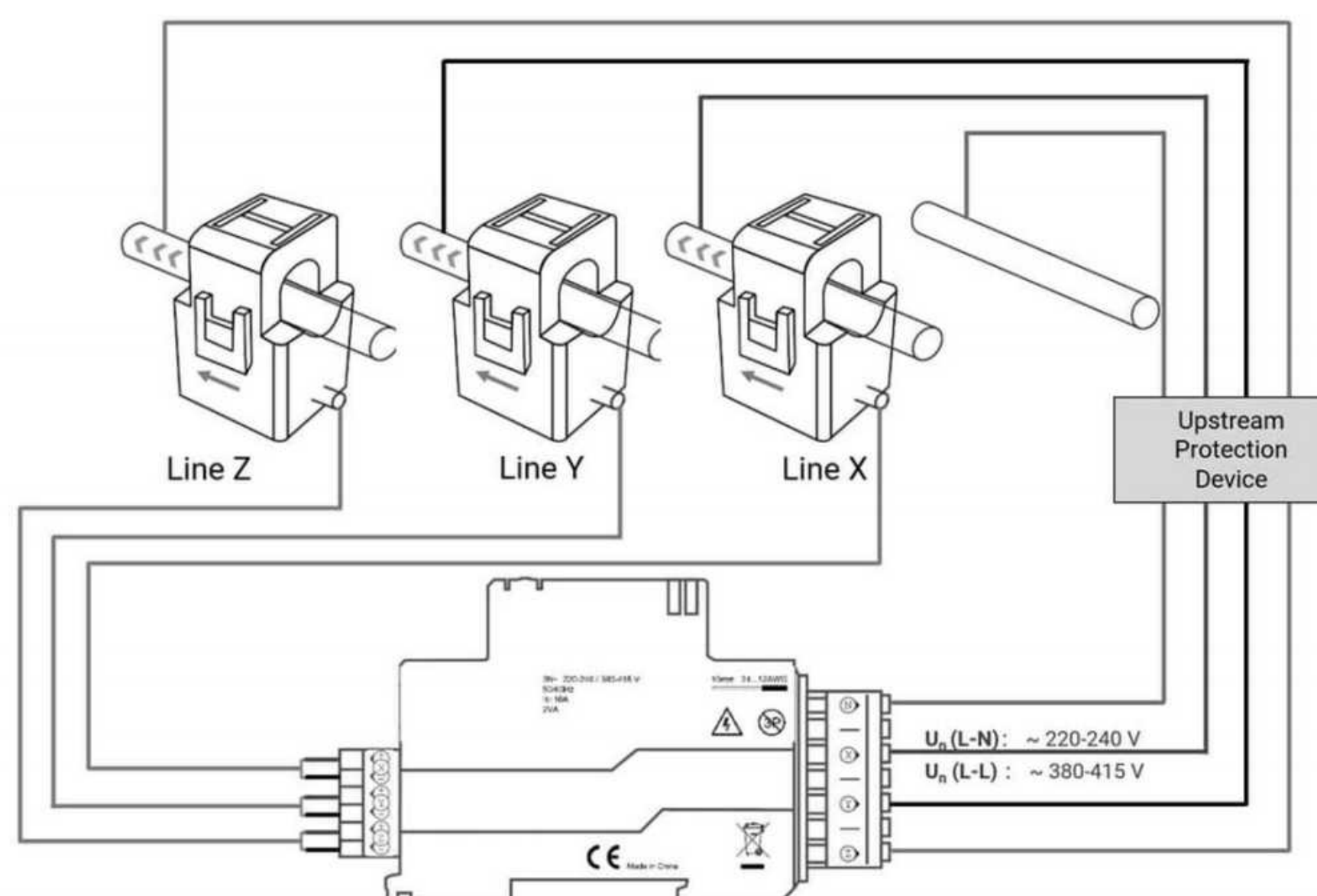
- QQSDM01-TWM-12-Z02 Three-Phase 120A Wi-Fi Compact Meter with 3×120A Clamp CTs
- QQSDM01-TZM-12-Z02 Three-Phase 120A Zigbee Compact Meter with 3×120A Clamp CTs
- QQSDM01-TWM-20-Z02 Three-Phase 200A Wi-Fi Compact Meter with 3×200A Clamp CTs
- QQSDM01-TZM-20-Z02 Three-Phase 200A Zigbee Compact Meter with 3×200A Clamp CTs

Technical Data

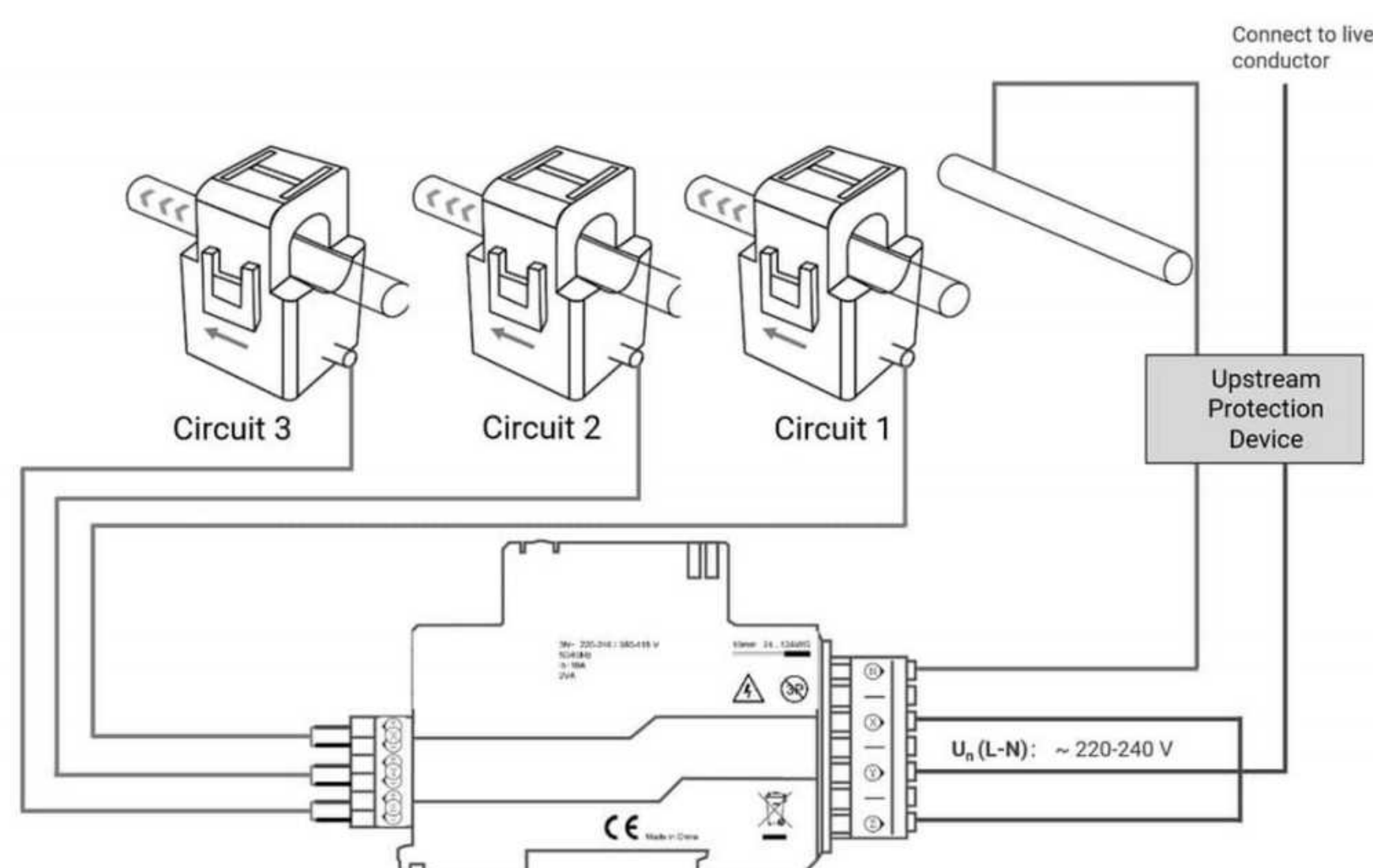
Rated Voltage		220 -240 VAC (L-N), 50/60 Hz 380-415 VAC (L-L), 50/60 Hz	Rated Impulse Withstand Voltage		4kV
Max Monitoring Current		120 A / 200 A	Pollution Degree		3
Over-voltage Category		III	Protection Degree		IP20
Rated Insulating Voltage		440V	Measurement Accuracy		Class 1 (active energy)
Maximum Power Consumption		≤ 2VA	Rated Operating Temperature		-25℃ to 70℃
Dimension	Main Module	46.4x53.0x21.3mm	Communication Type	Wireless	Wi-Fi; Zigbee
	Sensor Module	Refer to datasheet		Wired	RS485

Wiring Diagrams

Three-phase (3P4W) System Wiring



Single-phase System Wiring up to 3 Branch Circuits



QQSDM02T

Split-Phase Compact Energy Meter with Clamp CTs

The product is a compact smart energy monitor designed for split-phase and two-phase systems. Using two split-core CTs, it provides precise measurement of voltage, current, power, and energy. With integrated wireless communication, it offers effortless integration into smart energy ecosystems.



Ordering Code

- QQSDM01-TWM-12-Z02

Split-Phase 120A Wi-Fi Compact Meter with 2×120A Clamp CTs

➤

SDM02T-TZ-12-Z02

Split-Phase 120A Zigbee Compact Energy Meter with 2×120A Clamp CTs

➤

SDM02T-TW-20-Z02

Split-Phase 200A Wi-Fi Compact Meter with 2×200A Clamp CTs

➤

SDM02T-TZ-20-Z02

Split-Phase 200A Zigbee Compact Meter with 2×200A Clamp CTs

➤

SDM02T-TW-10U-Z02

Split-Phase 100A Wi-Fi Compact Meter with 2×100A UL2808 Clamp CTs

➤

SDM02T-TZ-10U-Z02

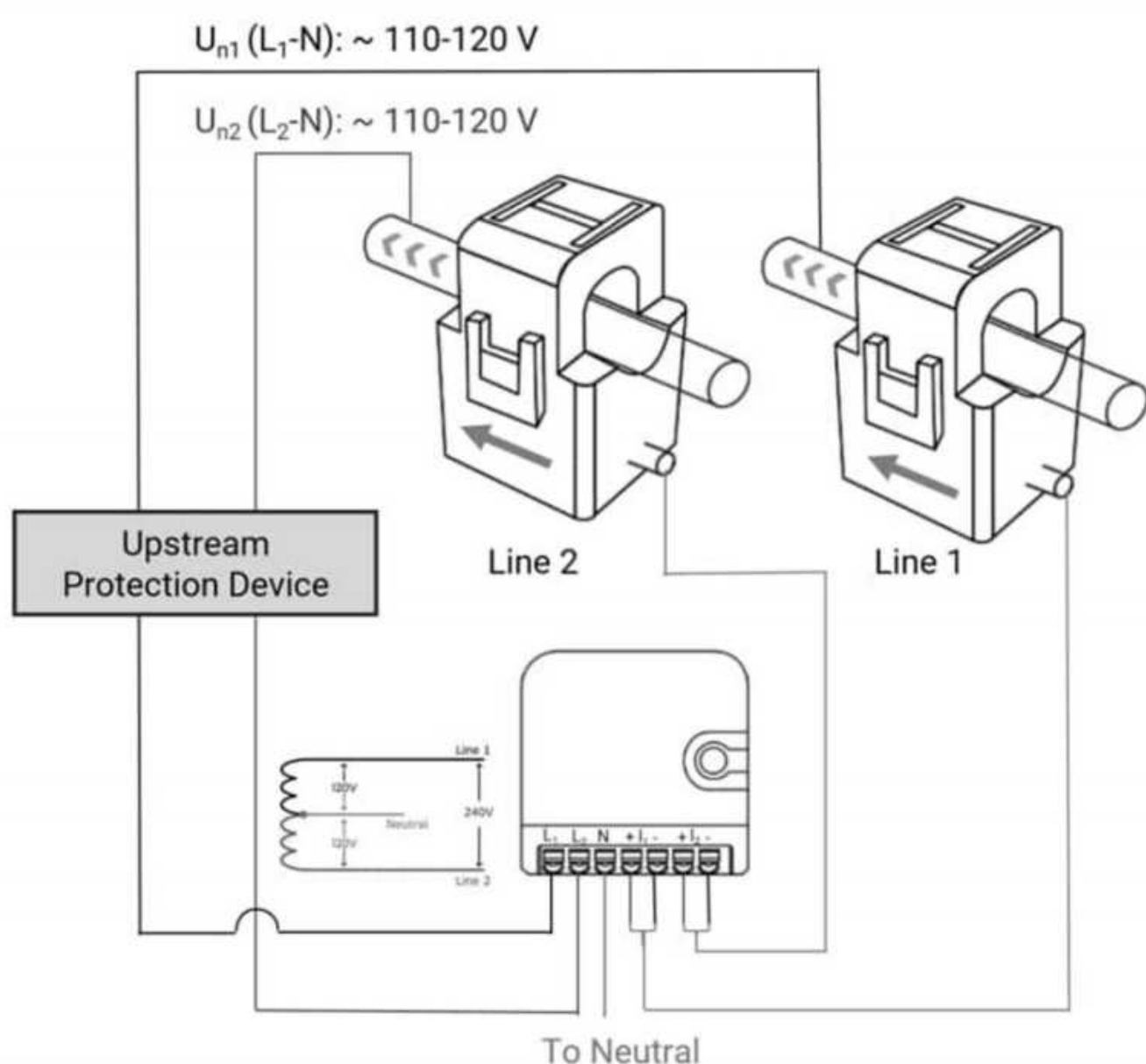
Split-Phase 100A Zigbee Compact Meter with 2×100A UL2808 Clamp CTs

Technical Data

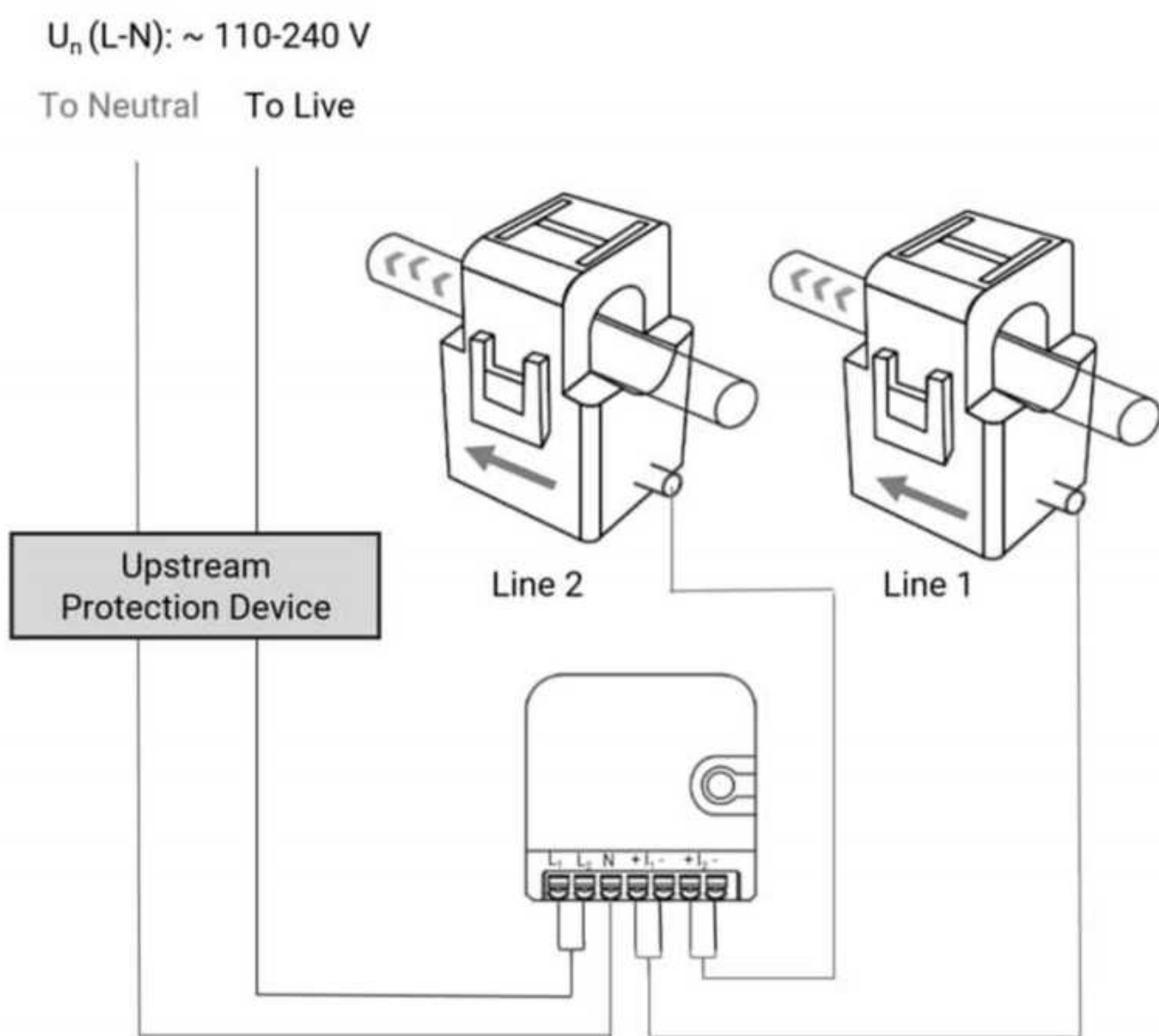
Rated Voltage		110~240 VAC L-N, 50/60 Hz 220~240 VAC L1-L2, 50/60 Hz	Rated Impulse Withstand Voltage	4kV
Max Monitoring Current		120 A / 200 A / 100A (UL2208)	Pollution Degree	3
Over-voltage Category		III	Protection Degree	IP20
Rated Voltage		250V	Measurement Accuracy	Class 1 (active energy)
Maximum Power Consumption		≤ 2VA	Rated Operating Temperature	-25℃ to 70℃
Dimension	Main Module	42.2×41.6×20mm	Communication Type	Wi-Fi; Zigbee
	Sensor Module	Refer to datasheet		

Wiring Diagrams

UL Split-phase System Wiring



UL/IEC 1P+N System up to 2 Branch Circuits



QQSPM01

1PN 63A Flexible-Installation Miniature Energy Meter

The Miniature Energy Meter (Flexible Version) is ideal for installations where MCB-mounting compatibility with the circuit breaker is uncertain or when flexibility in installation is required. This version provides the same advanced features as the MCB-mounting version but offers a more flexible solution for a broader range of applications. It is ideal for retrofit projects or installations with space or compatibility constraints..



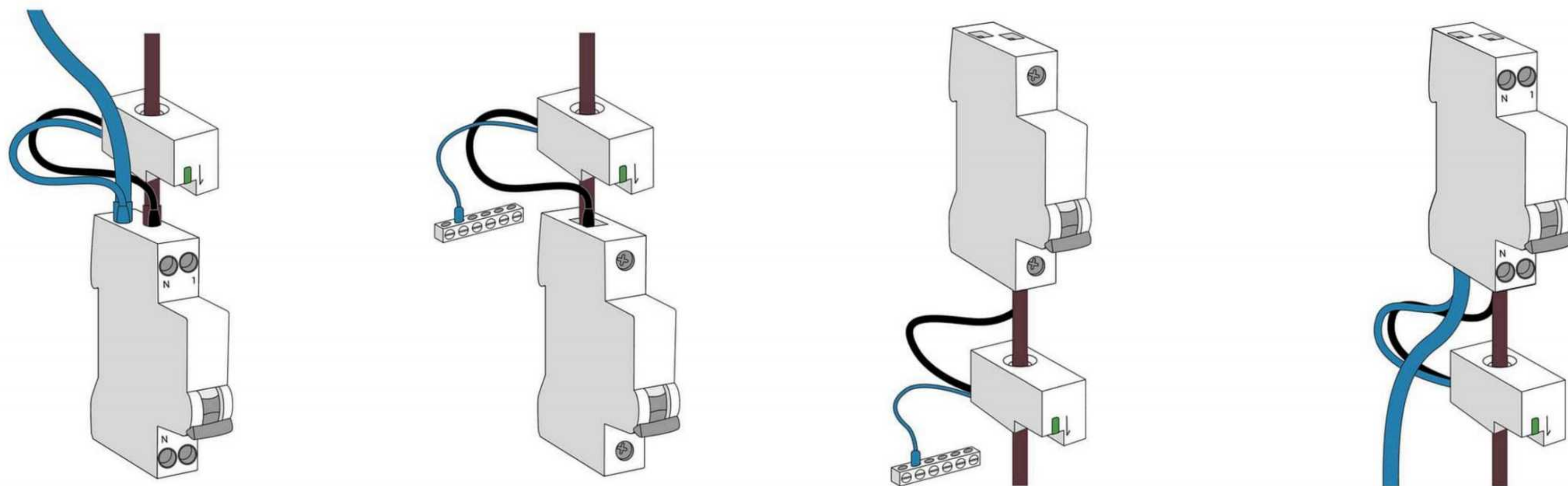
Ordering Code

- QQSPM01-D2TW-Z02 FLEX/63A 1PN Tuya Wi-Fi
- QQSPM01-D2TZ -Z02 FLEX/63A 1PN Tuya Zigbee

Technical Data

Rated Voltage	220-240 VAC, 50/60 Hz	Rated Impulse Withstand Voltage	4kV
Max Monitoring Current	63A	Pollution Degree	3
Over-voltage Category	III	Protection Degree	IP20
Rated Insulating Voltage	250V	Measurement Accuracy	±1% (active energy)
Maximum Power Consumption	≤ 2VA	Dimension	46.8x17.8x21.3mm
Rated Operating Temperature	-25℃ to 70℃	Communication Type	Wi-Fi; Zigbee

Wiring Diagrams



QQSPM02

3PN 63A Flexible-Installation Miniature Energy Meter

The Miniature Energy Meter (Flexible version),also known as the Smart Energy Sensor or Smart Energy Monitor, is an advanced electrical monitoring device designed for three-phase applications. With its compact size, it is Ideal for installation above or below circuit breakers, requiring no space on Din-rails. The product offers precise, real-time data collection for energy consumption, ensuring seamless integration into energy management systems.



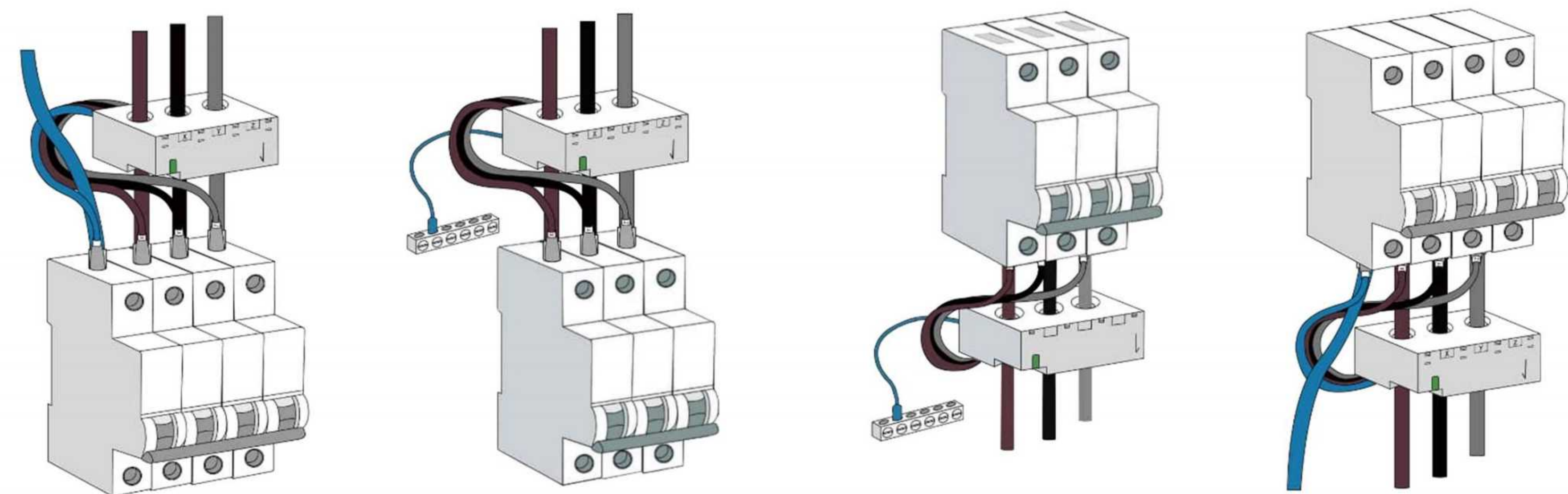
Ordering Code

- QQSPM02-D2TW-Z02 FLEX/63A 3PN Tuya Wi-Fi
- QQSPM02-D2TZ -Z02 FLEX/63A 3PN Tuya Zigbee

Technical Data

Rated Voltage	~220 -240 VAC (L-N), 50/60 Hz ~380-415 VAC (L-L), 50/60 Hz	Rated Impulse Withstand Voltage	4kV
Max Monitoring Current	63A	Pollution Degree	3
Over-voltage Category	III	Protection Degree	IP20
Rated Insulating Voltage	440V	Measurement Accuracy	Class 1 (active energy)
Maximum Power Consumption	≤ 2VA	Dimension	46.4x53.0x21.3mm
Rated Operating Temperature	-25℃ to 70℃	Communication Type	Wi-Fi; Zigbee

Wiring Diagrams



DIN Rail Smart Switch

QQ- DRS1 Series

The QQ-DRS1 series are din rail-mounted smart switches, styled in small size and multifunction in application which address the issue of limited installation space in circuits and transform the traditional distribution boxes into smart ones. Main features include real time power consumption monitoring, low power consumption, over and under voltage protection, temperature protection, over current protection, and integration with smart automation systems.



**Remote
Control**



**Voice
Control**



**Time
Mode**



**Low Voltage
Protection**



**Over Voltage
Protection**



**Over Current
Protection**



**Temperature
Protection**



**Real-Time
Power / Current / Voltage**



**DIN Rail
Installation**



**Electricity
Consumption**

QQ-DRS2-TW-40 WIFI DIN RAIL SWITCH (On Off type)

Function

- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status

LED Indicator

- The LED indicator flashing blue indicates the device is in pairing mode.
- The LED solid blue shows the network is connected.
- The LED off indicates no network connection.
- The button indicator solid red indicates the switch is on.
- The button indicator off indicates the switch is off.

Technical Data

Rate Voltage	90-265V AC
Frequency	50/60Hz
Poles Description	1P+N(N wire outlet)
Maximum Operating Current	Wiring Connect Max 40A/Device Inside Relay 63A
Wi-Fi Standard	Wi-Fi(2.412-2.484GHZ) IEEE 802.11b/g/n
Model Selection	Non-metering Type



duct Size



*The specific dimensions shall be subject to the actual receipt.

Wiring Diagrams



| QQ-DRS2-TWM-40 WIFI DIN RAIL SWITCH (On Off+Metering type)

Function

- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status
- ◆ Energy Monitoring
- ◆ Real-time Voltage, Real-time Current, Real-time Power

LED Indicator

- The LED indicator flashing blue indicates the device is in pairing mode.
- The LED solid blue shows the network is connected.
- The LED off indicates no network connection.
- The button indicator solid red indicates the switch is on.
- The button indicator off indicates the switch is off.

Technical Data

Rate Voltage	90-265V AC
Frequency	50/60Hz
Poles Description	1P+N(N wire outlet)
Maximum Operating Current	Wiring Connect Max 40A/Device Inside Relay 63A
Wi-Fi Standard	Wi-Fi(2.412-2.484GHZ) IEEE 802.11b/g/n
Model Selection	Metering Type

Product Size



*The specific dimensions shall be subject to the actual receipt.

Wiring Diagrams



| QQ-DRS2-TWMVA-40 WIFI DIN RAIL SWITCH (On Off+Metering+VA Protection Type)

Function

- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status
- ◆ Energy Monitoring
- ◆ Real-time Voltage, Real-time Current, Real-time Power
- ◆ Over/Under Voltage Protection
- ◆ Over Current Protection
- ◆ High Power Protection

LED Indicator

- The LED indicator flashing blue indicates the device is in pairing mode.
- The LED solid blue shows the network is connected.
- The LED off indicates no network connection.
- The button indicator solid red indicates the switch is on.
- The button indicator off indicates the switch is off.

Technical Data

Rate Voltage	90-265V AC,50/60Hz
Poles Description	1P+N(N wire outlet)
Overcurrent Protection Range	1-50A
Overvoltage Protection Range	220V-270V
Under-voltage Protection Range	80V-220V
Maximum Operating Current	Wiring Connect Max 40A/Device Inside Relay 63A
Wi-Fi Standard	Wi-Fi(2.412-2.484GHZ) IEEE 802.11b/g/n

Product Size



*The specific dimensions shall be subject to the actual receipt.

Wiring Diagrams



QQ-DRS2-TZ-40
ZIGBEE DIN RAIL SWITCH
(On Off type)

Function

- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status

LED Indicator

- The LED indicator flashing blue indicates the device is in pairing mode.
- The LED solid blue shows the network is connected.
- The LED off indicates no network connection.
- The button indicator solid red indicates the switch is on.
- The button indicator off indicates the switch is off.



Technical Data

Rate Voltoge	90-265V AC
Frequency	50/60Hz
Poles Description	1P+N(N wire outlet)
Maximum Operating Current	Wiring Connect Max 40A/Device Inside Relay 63A
Protocol	Zigbee (2.400-2.483GHZ) IEEE 802.15.4
Model Selection	Non-metering Type

Product Size



Wiring Diagrams



Function

- LED Indicator

-
- LARKKEY**
- Use Zigbee 90-300V
signal 50/60Hz
- CE   Signal Light
- Z**
- Metering
- In: 63A
- N Power L1
- W V A
- N Load L2

Technical Data

Rate Voltoge	90-265V AC
Frequency	50/60Hz
Poles Description	1P+N(N wire outlet)
Maximum Operating Current	Wiring Connect Max 40A/Device Inside Relay 63A
Protocol	Zigbee (2.400-2.483GHZ)IEEE 802.15.4
Model Selection	Metering Type

Product Size



Wiring Diagrams



| QQ-DRS2-TZMVA-40 ZIGBEE DIN RAIL SWITCH (On Off+Metering+VA Protection Type)

Function

- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status
- ◆ Energy Monitoring
- ◆ Real-time Voltage, Real-time Current, Real-time Power
- ◆ Over/Under voltage Protection
- ◆ Over Current Protection
- ◆ High Power Protection

LED Indicator

- The LED indicator flashing blue indicates the device is in pairing mode.
- The LED solid blue shows the network is connected.
- The LED off indicates no network connection.
- The button indicator solid red indicates the switch is on.
- The button indicator off indicates the switch is off.

Technical Data

Rate Voltoge	90-265V AC,50/60Hz
Poles Description	1P+N(N wire outlet)
Overcurrent Protection Range	1-50A
Overvoltage Protection Range	220V-270V
Under-voltage Protection Range	80V-220V
Maximum Otperating Current	Wiring Connect Max 40A/Device Inside Relay 63A
Protocol	Zigbee (2.400-2.483GHZ)IEEE 802.15.4



Product Size



Wiring Diagrams



QQ-DRS2-TWMVAL-40

WiFi Din Rail Switch With Leakage Protection (On Off+Metering+VA Protection+Leakage Type)

Function

- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status
- ◆ Energy Monitoring
- ◆ Real-time Voltage, Real-time Current, Real-time Power
- ◆ Over/Under Voltage Protection
- ◆ Over Current Protection
- ◆ Overload Protection
- ◆ Leakage Protection

LED Indicator

- The LED indicator flashing blue indicates the device is in pairing mode.
- The LED solid blue shows the network is connected.
- The LED off indicates no network connection.
- The button indicator solid red indicates the switch is on.
- The button indicator off indicates the switch is off.

Technical Data

Rate Voltage	90-300V AC,50/60Hz
Poles Description	1P+N(N wire outlet)
Protocol	Wi-Fi(2.412-2.484GHZ) IEEE 802.11b/g/n
Overcurrent Protection Range	1-50A
Overvoltage Protection Range	220V-270V
Under-voltage Protection Range	80V-220V
Maximum Operating Current	Wiring Connect Max 40A/Device Inside Relay 63A

Product Size



*The specific dimensions shall be subject to the actual receipt.

Wiring Diagrams



QQ-DRS2-TWDC-40 DC WIFI DIN RAIL SWITCH (On Off type)

Function

- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status

LED Indicator

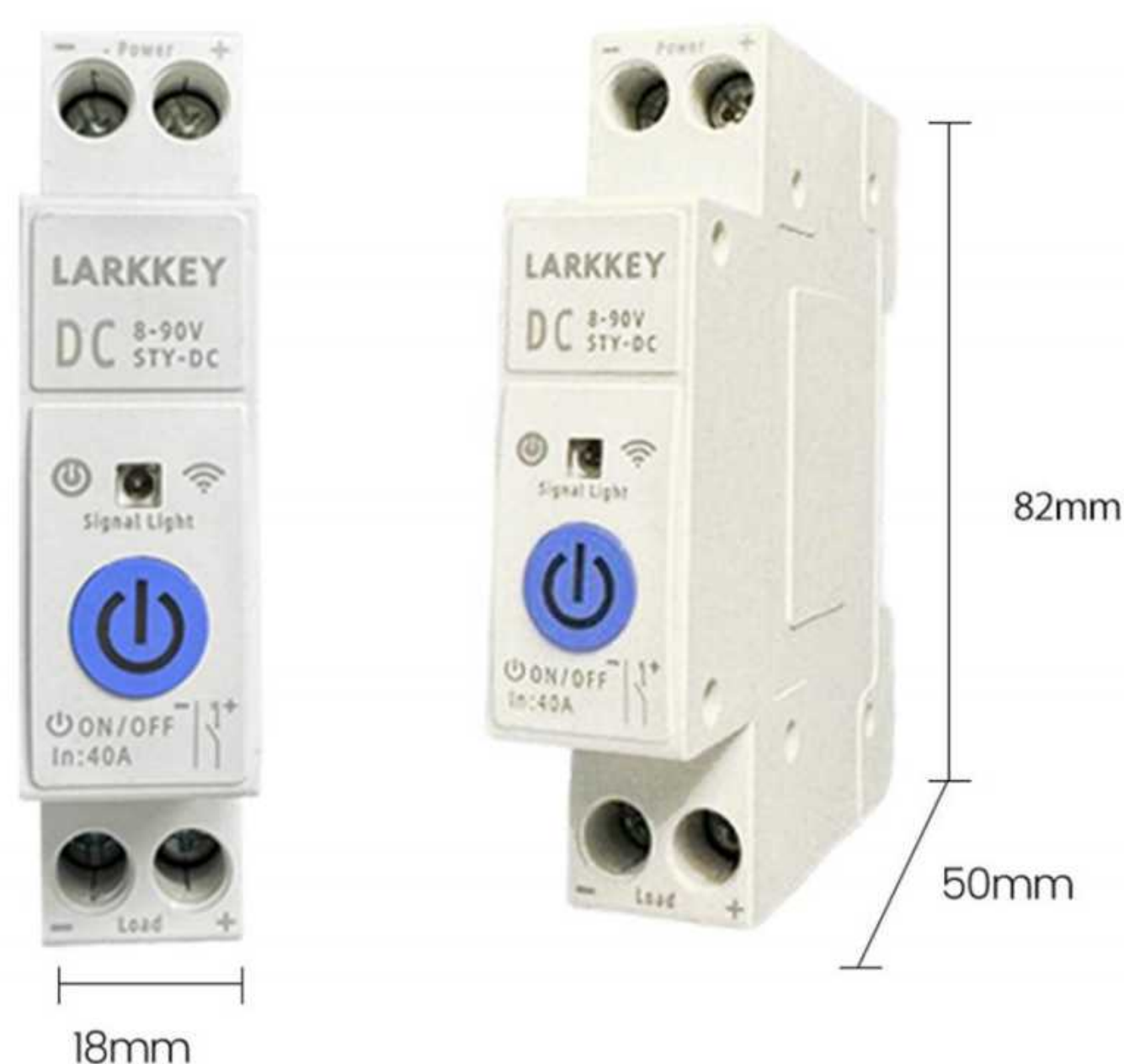
- The LED indicator flashing blue indicates the device is in pairing mode.
- The LED solid blue shows the network is connected.
- The LED off indicates no network connection.
- The button indicator solid red indicates the switch is on.
- The button indicator off indicates the switch is off.



Technical Data

Rate Voltage	8-90V DC
Frequency	50/60Hz
Maintenance Lock	Power off the device or press the button 4 times to release the maintenance lock
Rated Current	Wiring Connect Max 40A/Device Inside Relay 63A
Wi-Fi Standard	Wi-Fi(2.412-2.484GHZ) IEEE 802.11b/g/n
Model Selection	Non-metering Type

Product Size



*The specific dimensions shall be subject to the actual receipt.

Wiring Diagrams



QQ-DRS2-TWMVAN-63
WiFi Din Rail Switch 63A
(On Off+Metering+VA Protection Type)

Function

- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status
- ◆ Energy Monitoring
- ◆ Real-time Voltage, Real-time Current, Real-time Power
- ◆ Over/Under voltage Protection
- ◆ Over Current Protection
- ◆ High Power Protection

LED Indicator

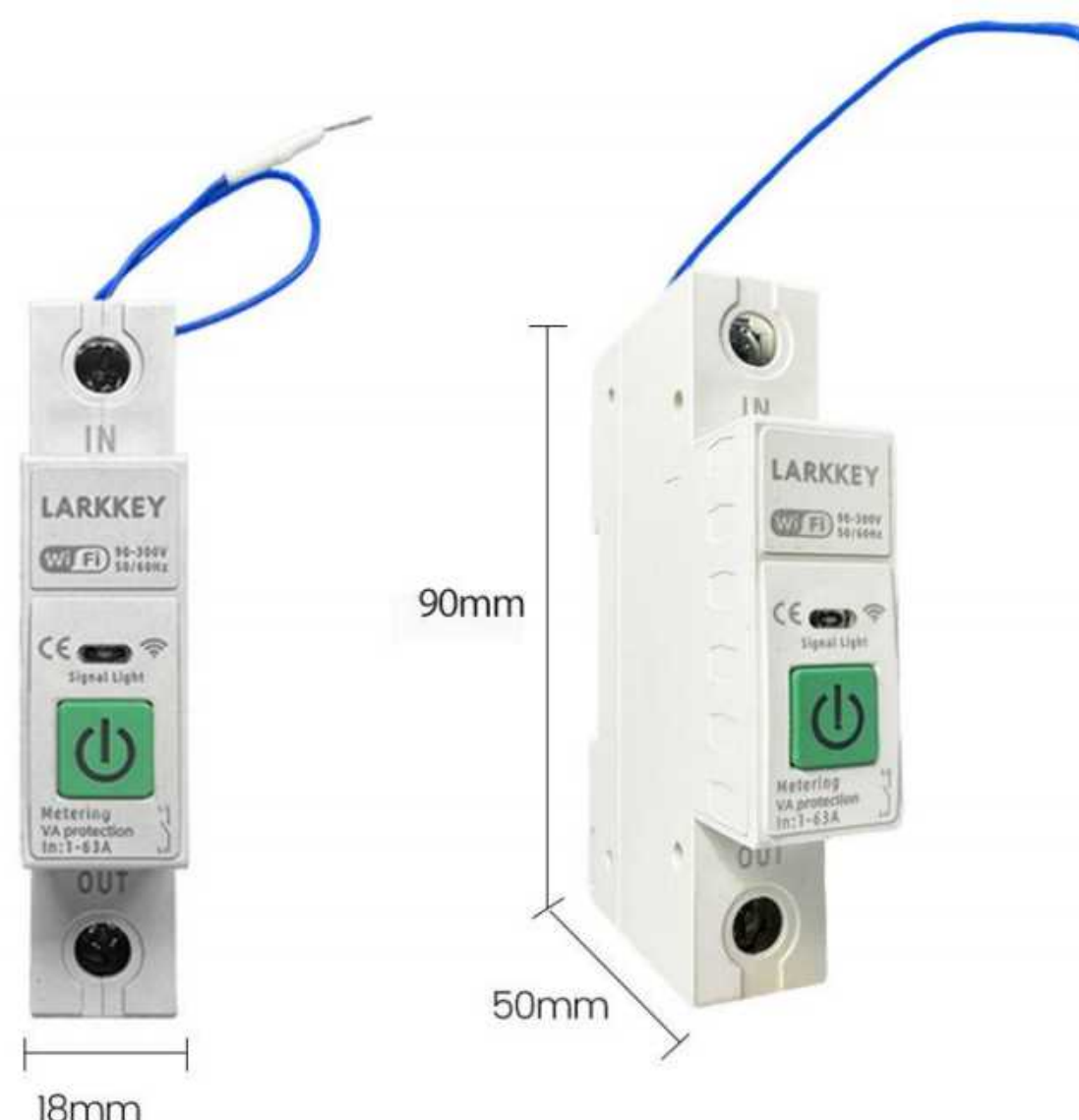
- The LED indicator flashing blue indicates the device is in pairing mode.
- The LED solid blue shows the network is connected.
- The LED off indicates no network connection.
- The button indicator solid red indicates the switch is on.
- The button indicator off indicates the switch is off.



Technical Data

Rate Voltage	90-265V AC,50/60Hz
Poles Description	1P+N(N wire outlet)
Protocol	Wi-Fi(2.412-2.484GHZ) IEEE 802.11b/g/n
Overcurrent Protection Range	1-63A
Overvoltage Protection Range	220V-270V
Under-voltage Protection Range	80V-220V
Maximum Operating Current	63A

Product Size



*The specific dimensions shall be subject to the actual receipt.

QQ-DRS2-TWMVAL2P-63

WiFi double pole din rail switch 63A with leakage protection
(On Off+Metering+VA Protection+Leakage Type)

Function

- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status
- ◆ Energy Monitoring
- ◆ Real-time Voltage, Real-time Current, Real-time Power
- ◆ Over/Under Voltage Protection
- ◆ Over Current Protection
- ◆ Leakage Protection
- ◆ Overload Protection
- ◆ Prepaid Function

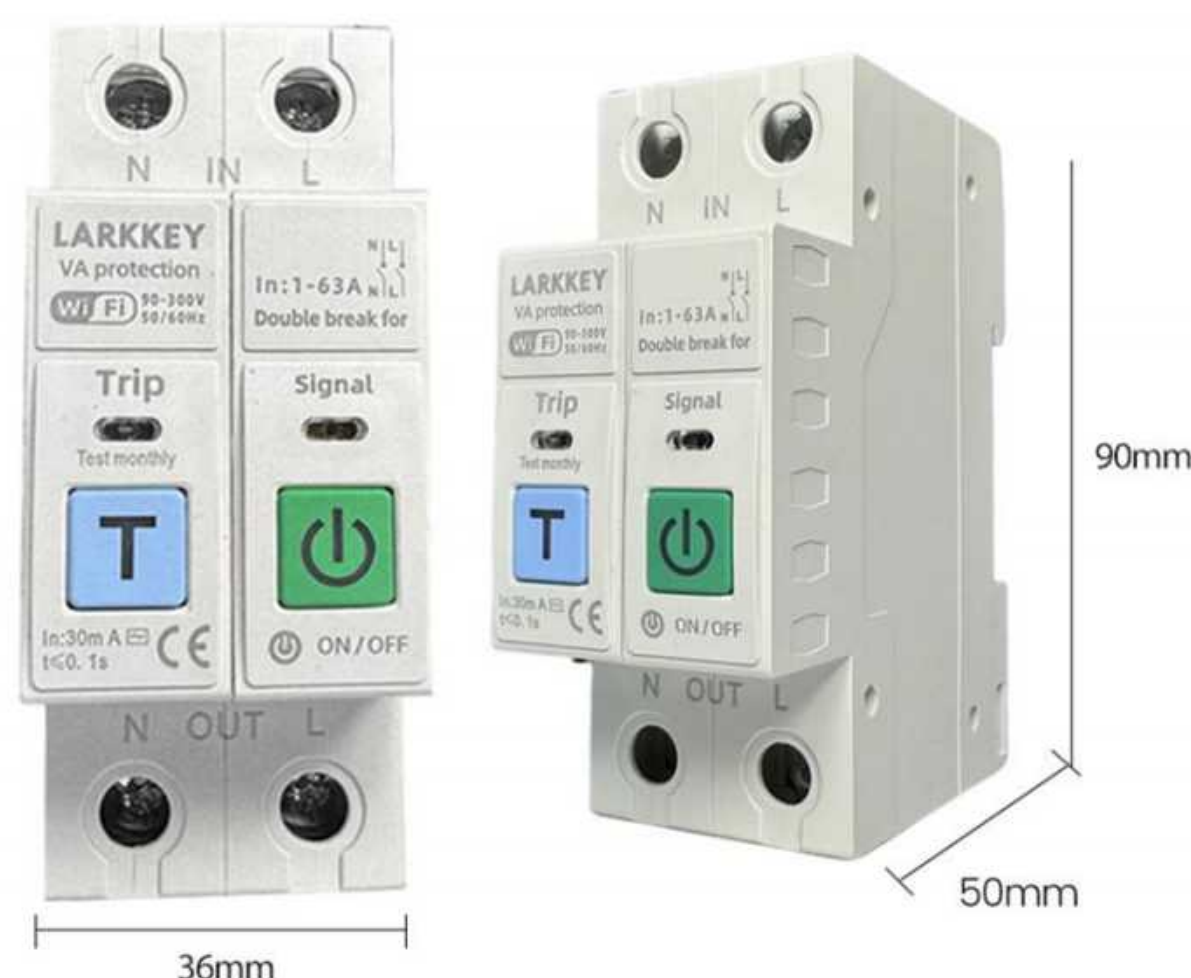
LED Indicator

- The LED indicator flashing blue indicates the device is in pairing mode.
- The LED solid red shows the network is connected.
- The LED off indicates no network connection.
- The button indicator solid red indicates the switch is on.
- The button indicator off indicates the switch is off.

Technical Data

Rate Voltage	90-265V AC,50/60Hz
Poles Description	2P+N(double pole)
Overcurrent Protection Range	1-63A
Overvoltage Protection Range	220V-270V
Under-voltage Protection Range	80V-220V
Maximum Operating Current	63A
Wi-Fi Standard	Wi-Fi(2.412-2.484GHZ) IEEE 802.11b/g/n

Product Size



*The specific dimensions shall be subject to the actual receipt.



Smart Reclosing Circuit Breaker

QQ-RCB1 Series

The QQ-RCB1 series are the smart reclosing circuit breaker which is mainly used to handle of transient faults in power systems and restore power supply through automatic reclosing circuit breakers. The main features include real time power consumption monitoring, over and under voltage protection, over current protection, leakage protection, reclose circuit breaker and prepay electricity charging function.



**Remote
Control**



**Voice
Control**



**Time
Mode**



**Electricity
Consumption**



**Real-Time
Power / Current / Voltage**



**Low Voltage
Protection**



**Over Voltage
Protection**



**Over Current
Protection**



**Temperature
Protection**



**DIN Rail
Installation**



**Leakage
Protection**



**Reclosing
Function**

QQ-Z1WFRP63

WiFi Reclosing Protector Multi Function Meters

(On Off+Metering+VA Protection+Leakage Type)

Function

- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status
- ◆ Energy Monitoring
- ◆ Real-time Voltage, Real-time Current, Active Power,Balance, Residual Current,Temperature
- ◆ Over/Under Voltage Protection
- ◆ Over Current Protection
- ◆ Current Limiting Setting
- ◆ Leakage Protection
- ◆ Expense Management
- ◆ Delay Protection

LED Indicator

- The LED indicator flashing red indicates the device is in pairing mode.
- The LED solid red shows the network is connected.
- The LED off indicates no network connection.

Technical Data

Rate Voltage	90-300V AC,50/60Hz
Electrical Life/Mechanical Life	10 ⁵
Protection Level	IP20
Over-current Setting Parameter Range	0.1-63.0A
Protocol	Wi-Fi(2.412-2.484GHZ) IEEE 802.11b/g/n
Output Contacts	1NO

Product Size



Wiring Diagrams



QQ-Z2WFRP63

WiFi Reclosing Protector Multi Function Meters

(On Off+Metering+VA Protection+Leakage Type)

Function

- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status
- ◆ Energy Monitoring
- ◆ Real-time Voltage,Real-time Current,Active Power,Balance, Residual Current,Overall Power Factor
- ◆ Over/Under Voltage Protection
- ◆ Over Current Protection
- ◆ High Temperature Protection
- ◆ Leakage Protection
- ◆ Overload Protection
- ◆ Delay Protection
- ◆ Expense Management

LED Indicator

- The LED indicator flashing red indicates the device is in pairing mode.
- The LED solid red shows the network is connected.
- The LED off indicates no network connection.

Technical Data

Rate Voltge	90V-300V AC,50/60Hz
Protection pole number	2P+N (N wire outlet)
Overcurrent Protection Range	1-63A
Overvoltage Protection Range	220V-270V
Under-voltage Protection Range	80V-220V
Maximum Operating Current	63A
Wi-Fi Standard	Wi-Fi(2.412-2.484GHZ) IEEE 802.11b/g/n

Product Size



Wiring Diagrams



QQ-Z4WFRP63

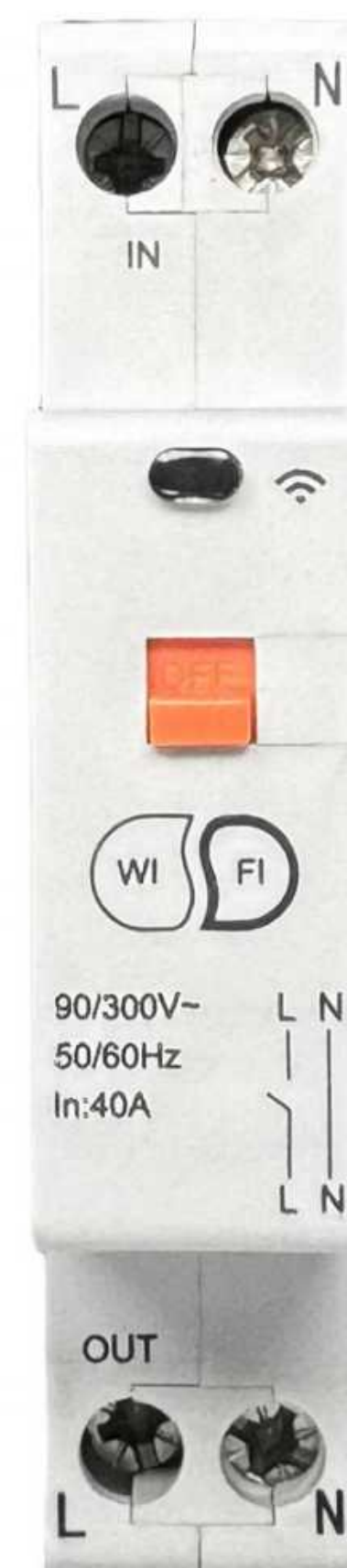
Smart WIFI auto Reclosing relay (On Off+Metering+VA Protection)

Function

- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status
- ◆ Energy Monitoring
- ◆ Real-time Voltage, Real-time Current, Active Power, Reactive Power, Apparent Power, Power Factor
- ◆ Over/Under Voltage Protection
- ◆ Over Current Protection
- ◆ High Temperature Protection
- ◆ Expense Management

LED Indicator

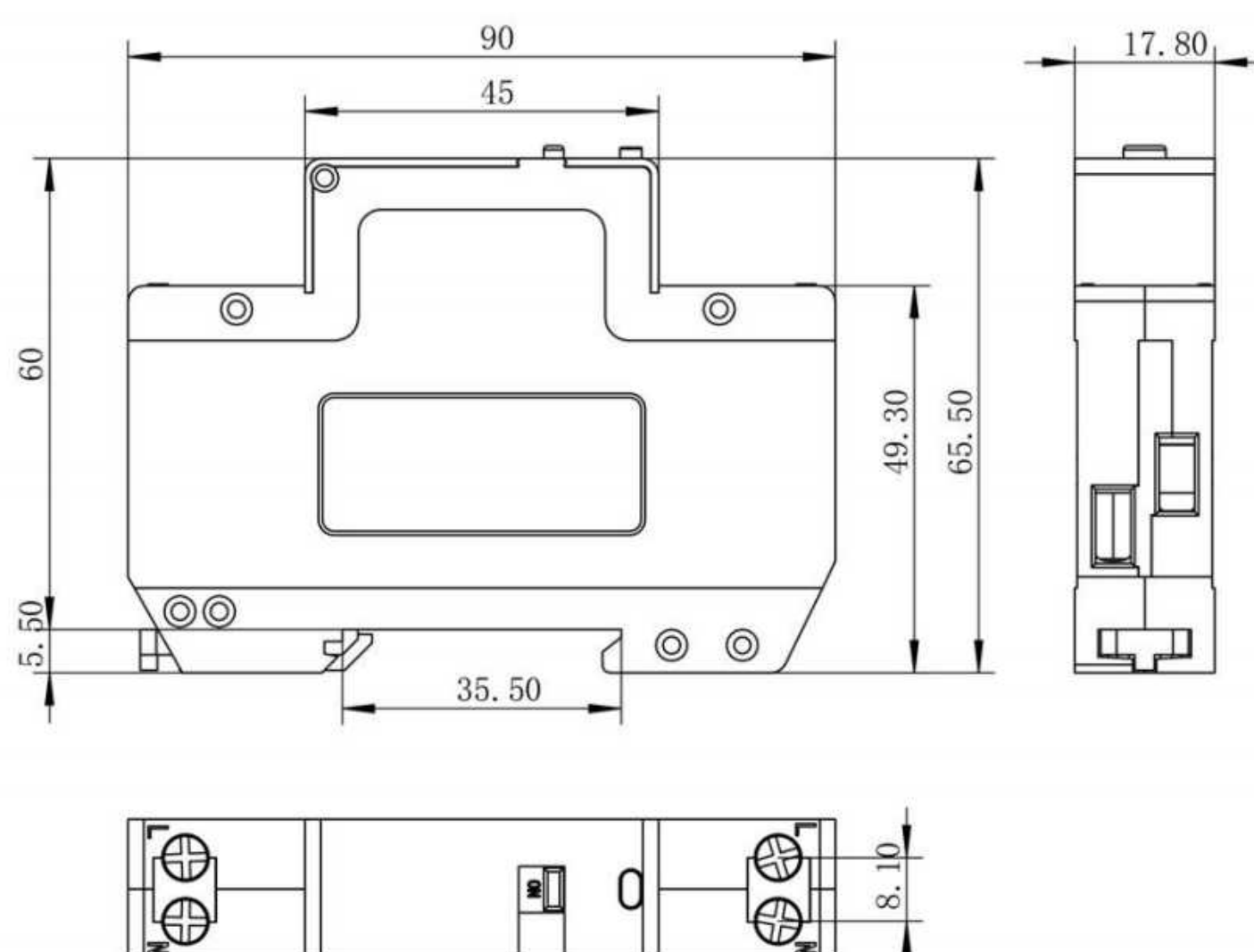
- The LED indicator flashing blue indicates the device is in pairing mode.
- The LED indicator solid red indicates the switch is on.
- The LED off indicator off indicates the switch is off.



Technical Data

Rate Voltoge	90-300V AC,50/60Hz
Poles Description	1P+N
Maintenance Lock	Power off the device or press the button 4 times to release the maintenance lock
Rated Current	40A
Protocol	Wi-Fi(2.412-2.484GHZ) IEEE 802.11b/g/n
Metering Accuracy	Class 1.0

Product Size



Wiring Diagrams



Smart Switch Module

QQ-SM1 Series

Smart switch modular can be installed in the switch wiring box, turn the traditional switch into the smart one. And help you control your smart devices remotely including turn on and off the device, monitor the energy of the device, and you can share the device to your family, make group control for different types of devices. You can easily configure devices and manage their settings individually, or you can create personalized scenes by combining smart devices to trigger certain actions in your home automation.



Remote
Control



Voice
Control



Time
Mode



Relay
Status



On/Off
Switch



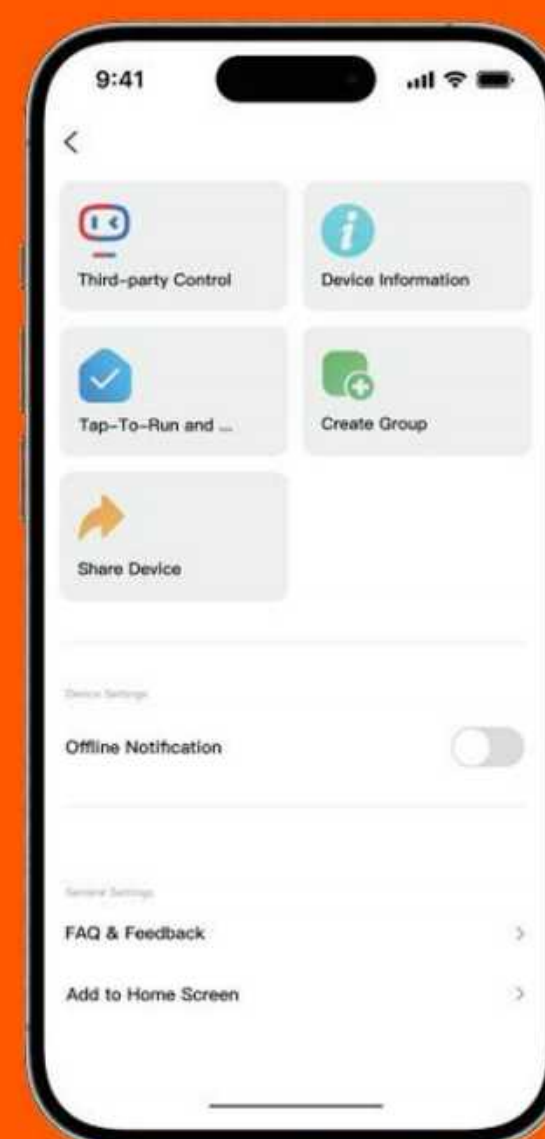
Electricity
Consumption



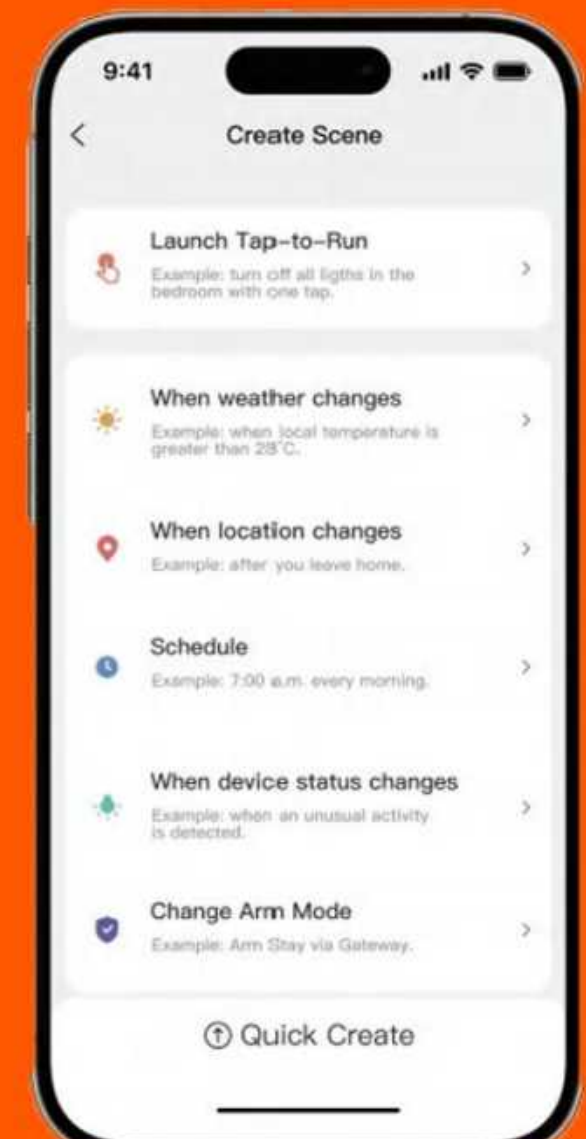
Control Interface



Energy Monitoring



Share Device,
Create Group



Automation

QQ-WIFI&Zigbee-S08-16A-EC

Smart Switch Module with energy monitoring function

Function

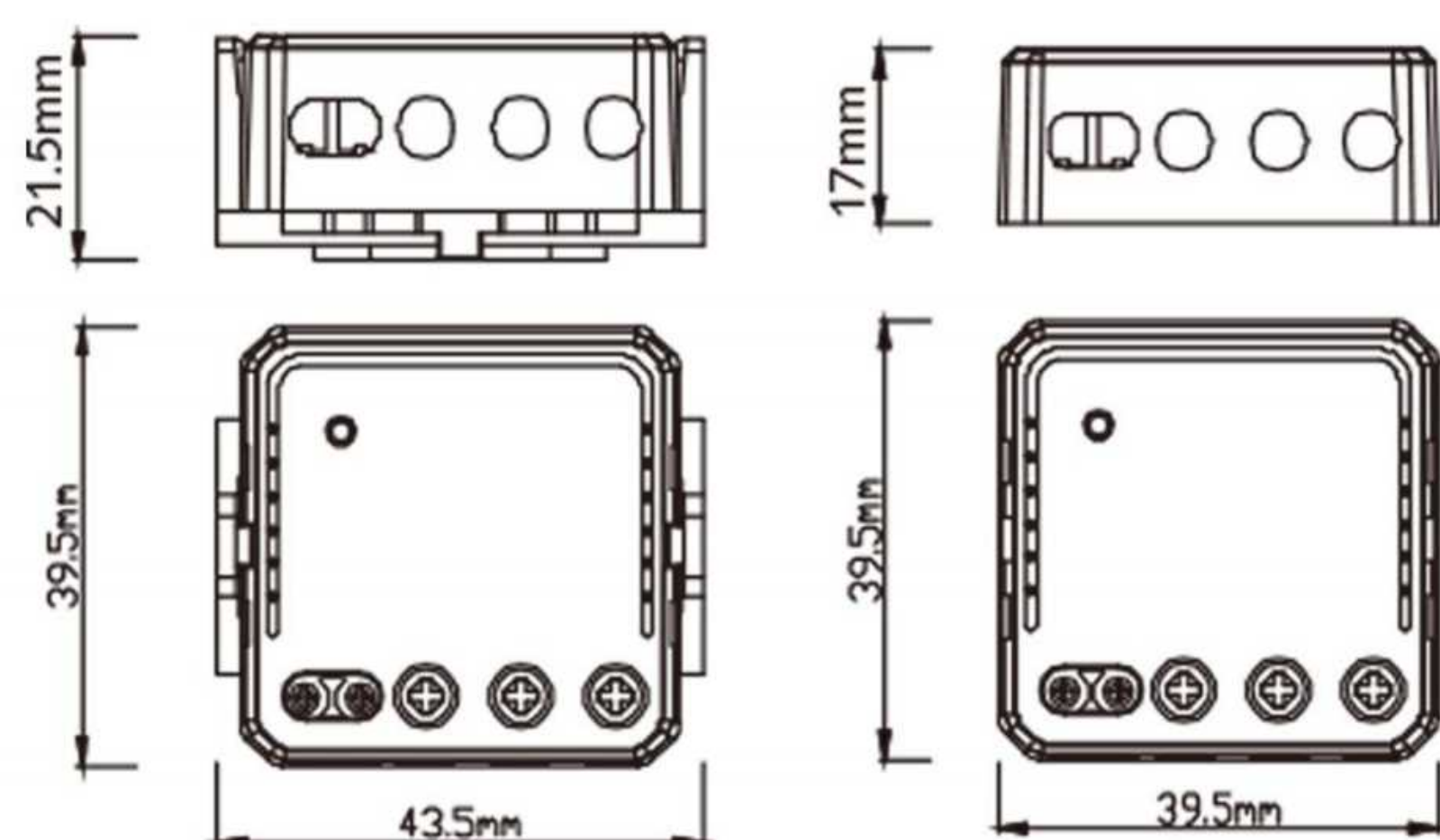
- ◆ On/Off Switch
- ◆ Remote Control
- ◆ Voice Control
- ◆ Timer
- ◆ Relay Status
- ◆ Energy Monitoring

Technical Data

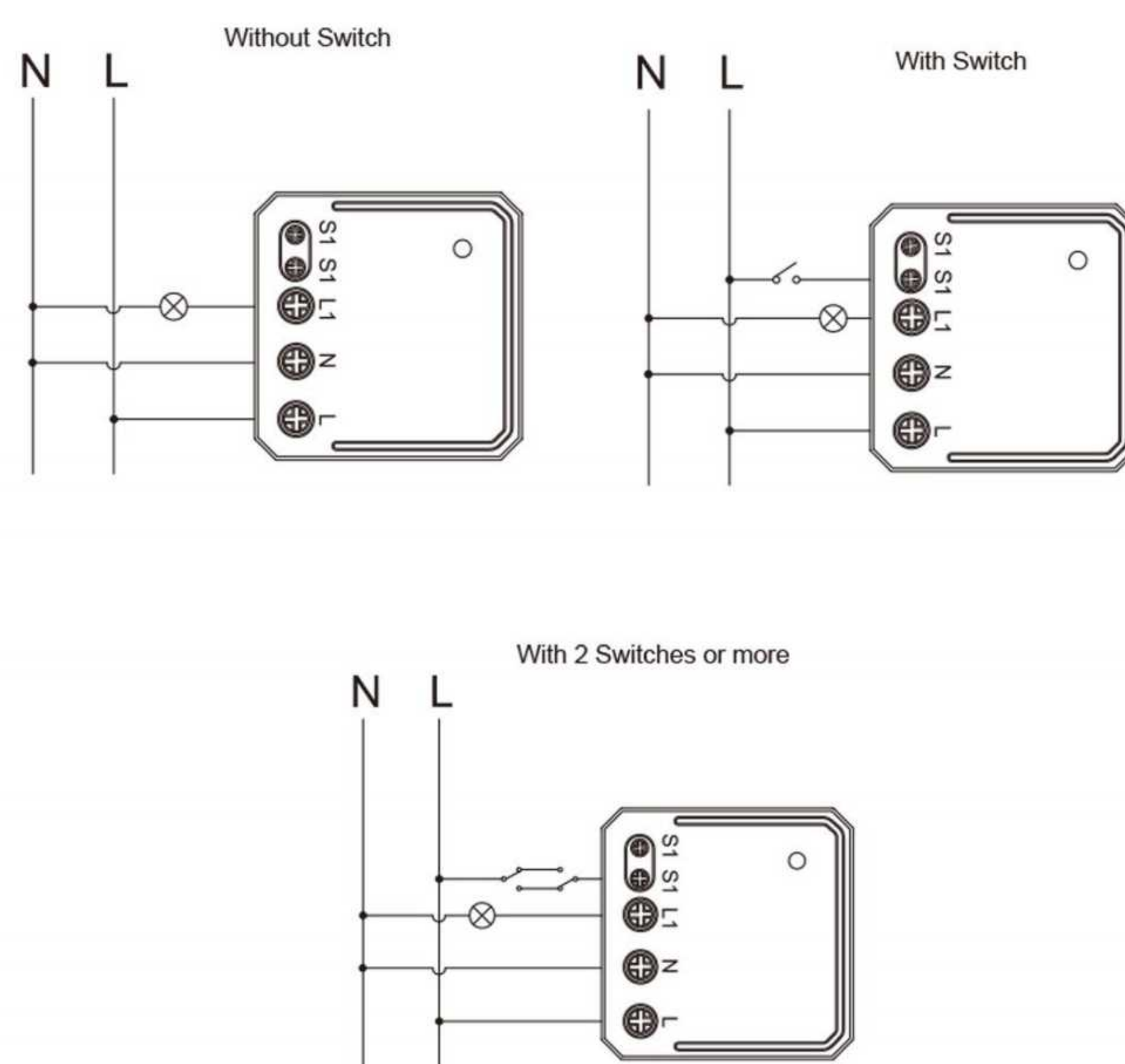
Input	100-240V,50/60Hz
Current	16A
Max. load	3680W/300W for LED
Operation Frequency	WiFi:2.4GHz~2.4835GHz WiFi 802.11 b/g/n Zigbee:2.4GHz~2.484GHz IEEE 802.15.4
Operation Temp.	-10°C - +40°C
Operation Range	≤ 200 m
IP Rating	IP20
Dims (WxDxH)	39.5x39.5x17mm



Product Size



Wiring Diagrams



Smart Energy Monitoring Clamp

QQ-SM1 Series

Smart energy monitoring clamp will help you monitor the energy of the device remotely, and you can share the device to your family, make group control for different types of devices. You can easily configure devices and manage their settings individually, or you can create personalized scenes by combining smart devices to trigger certain actions in your home automation.



Remote
Control



Electricity
Consumption



Real-Time
Voltage



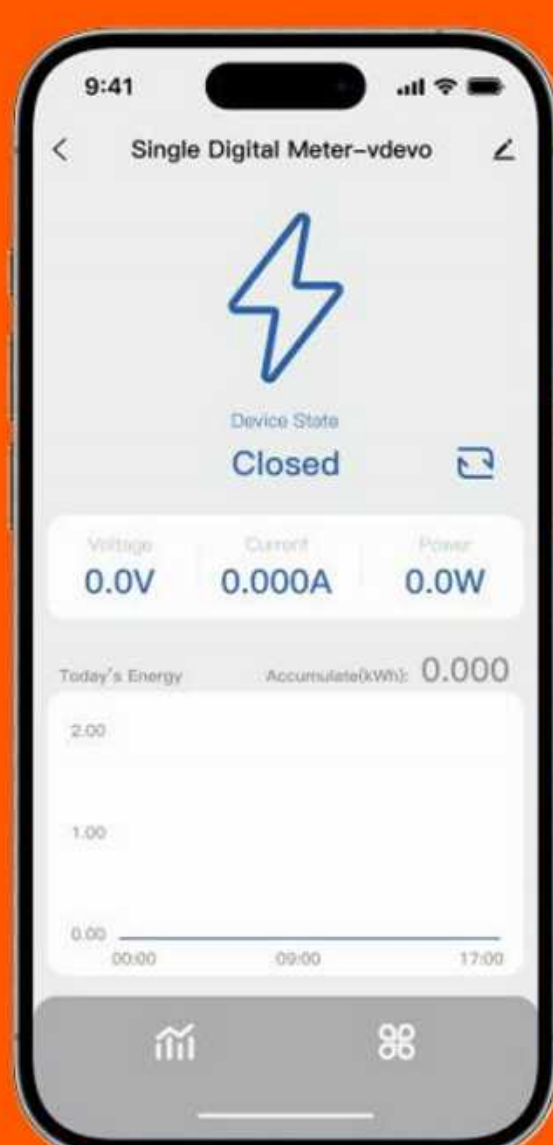
Real-Time
Current



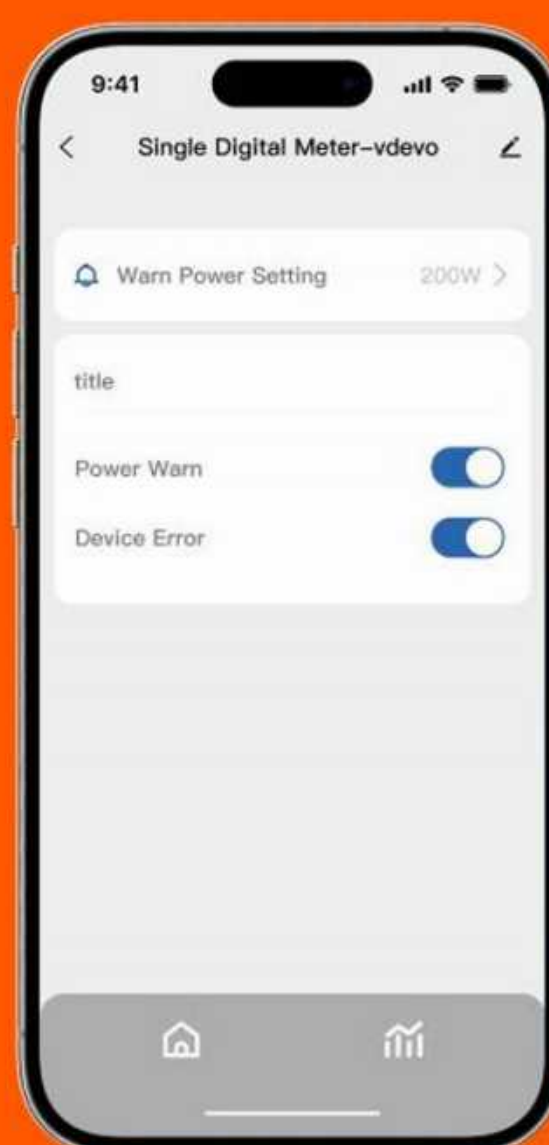
Real-Time
Power



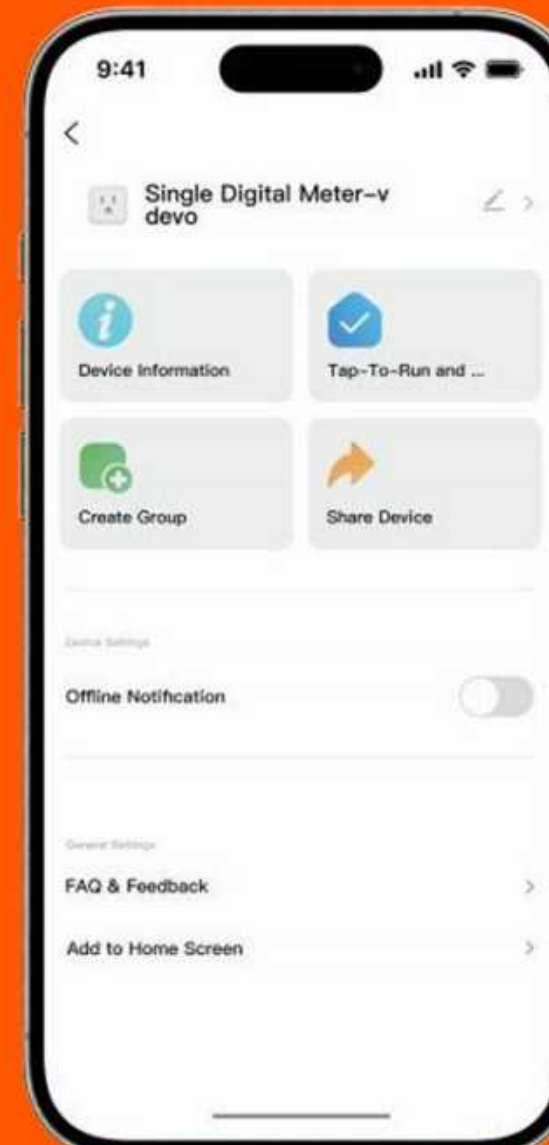
Power Warn
Setting



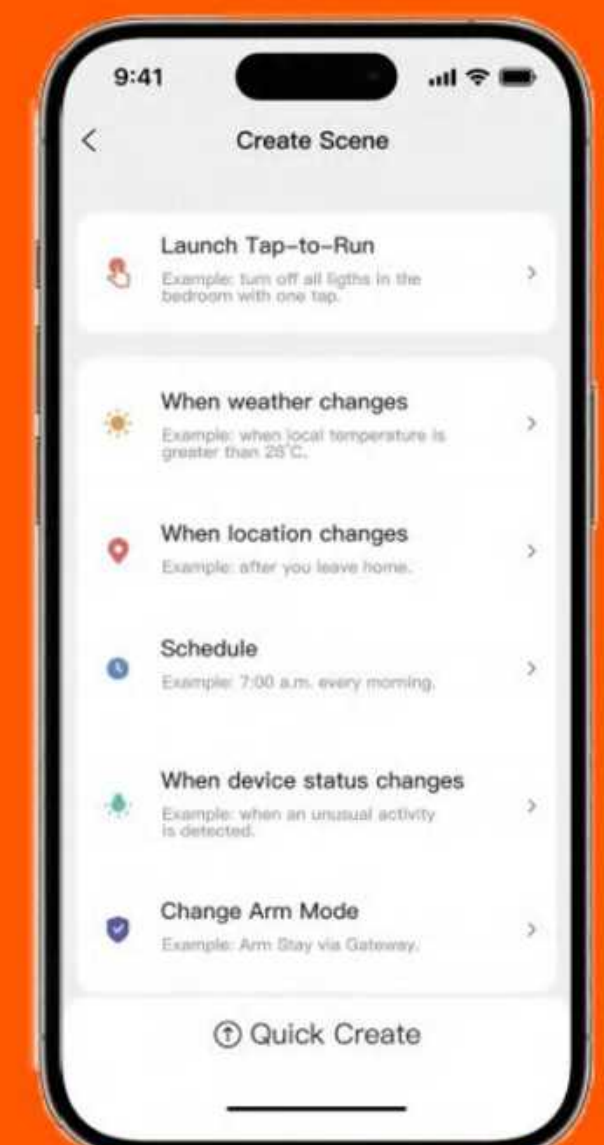
Control Interface



Warn Power
Setting



Share Device,
Create Group



Automation

QQ-WIFI-CT01

Smart 1 Gang Single Phase Clamp

Function

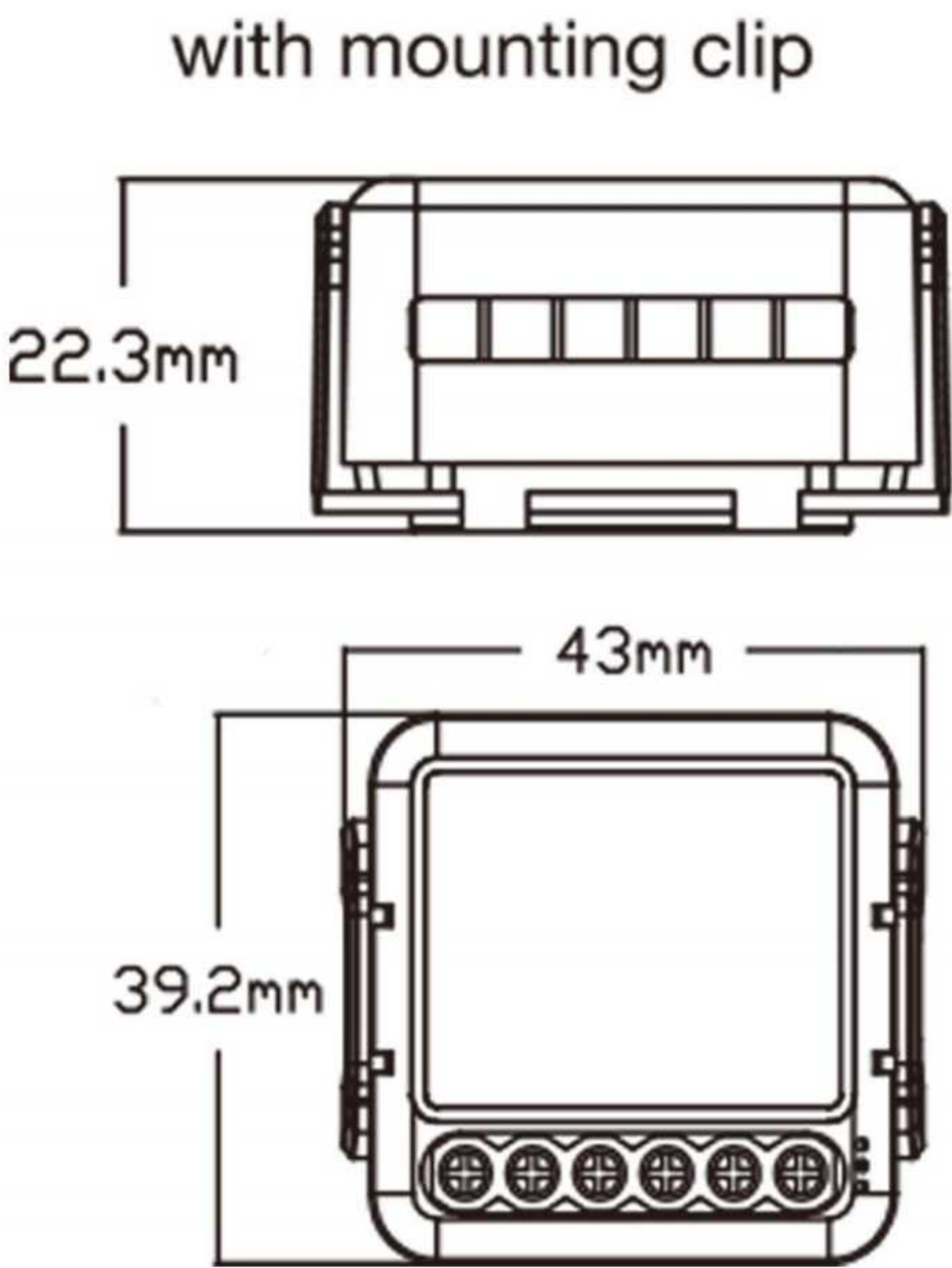
- ◆ Energy Monitoring
- ◆ Remote Control
- ◆ Real-time Voltage, Real-time Current, Active Power
- ◆ Alarm Alert
- ◆ Power Warn

Technical Data

Input	100-240V,50/60Hz
Max.	0.2-80A
Operation Frequency	WiFi:2.4GHz~2.4835GHz WiFi 802.11 b/g/n
Operation Temp.	-10°C - +40°C
Operation Range	≤ 100 m
IP Rating	IP20
Dims (WxDxH)	39.2x39.2x18mm

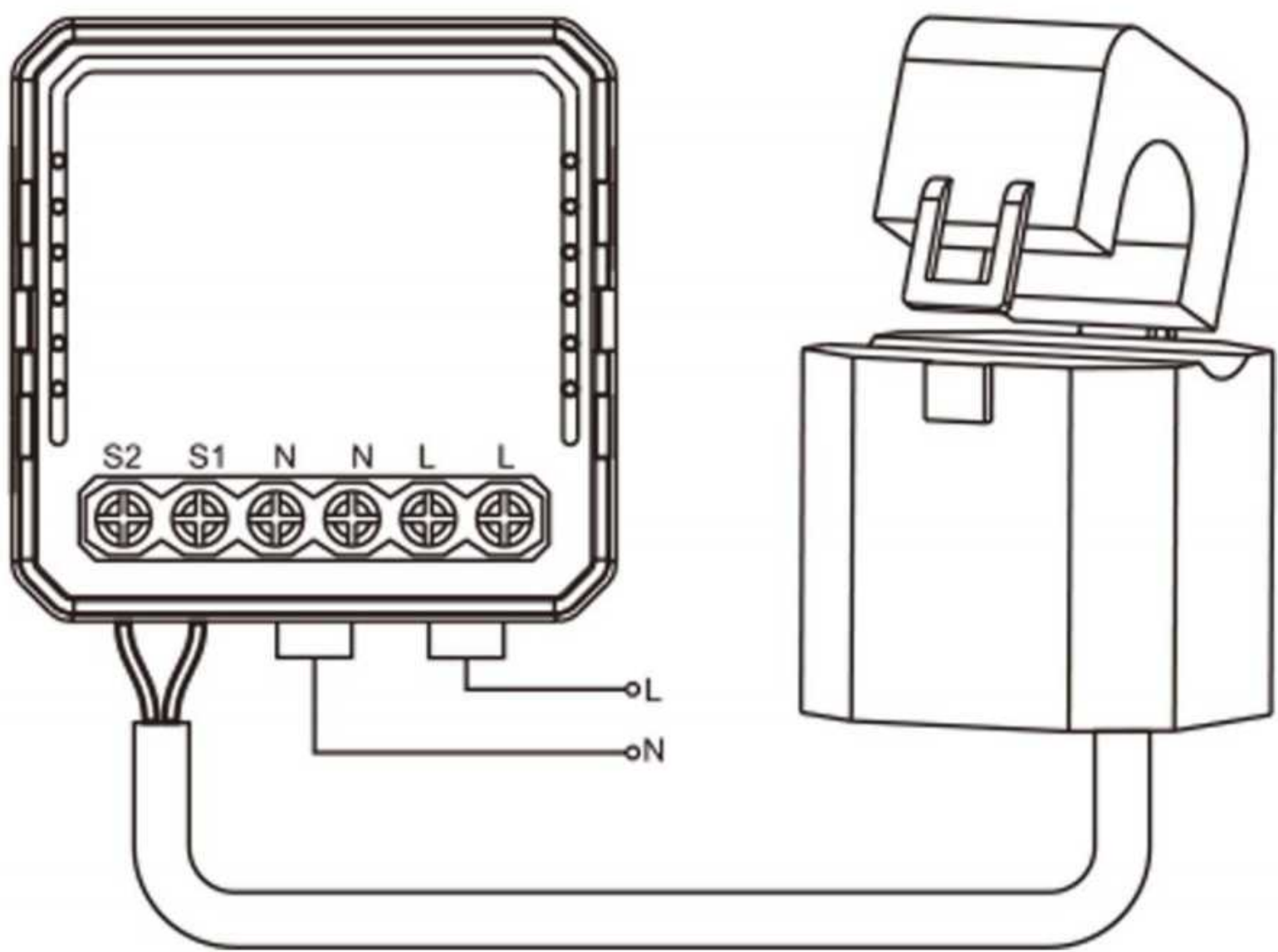


Product Size



Wiring Diagrams

1CH WIFI Single Phase Clamp



QQ-WIFI-CT02

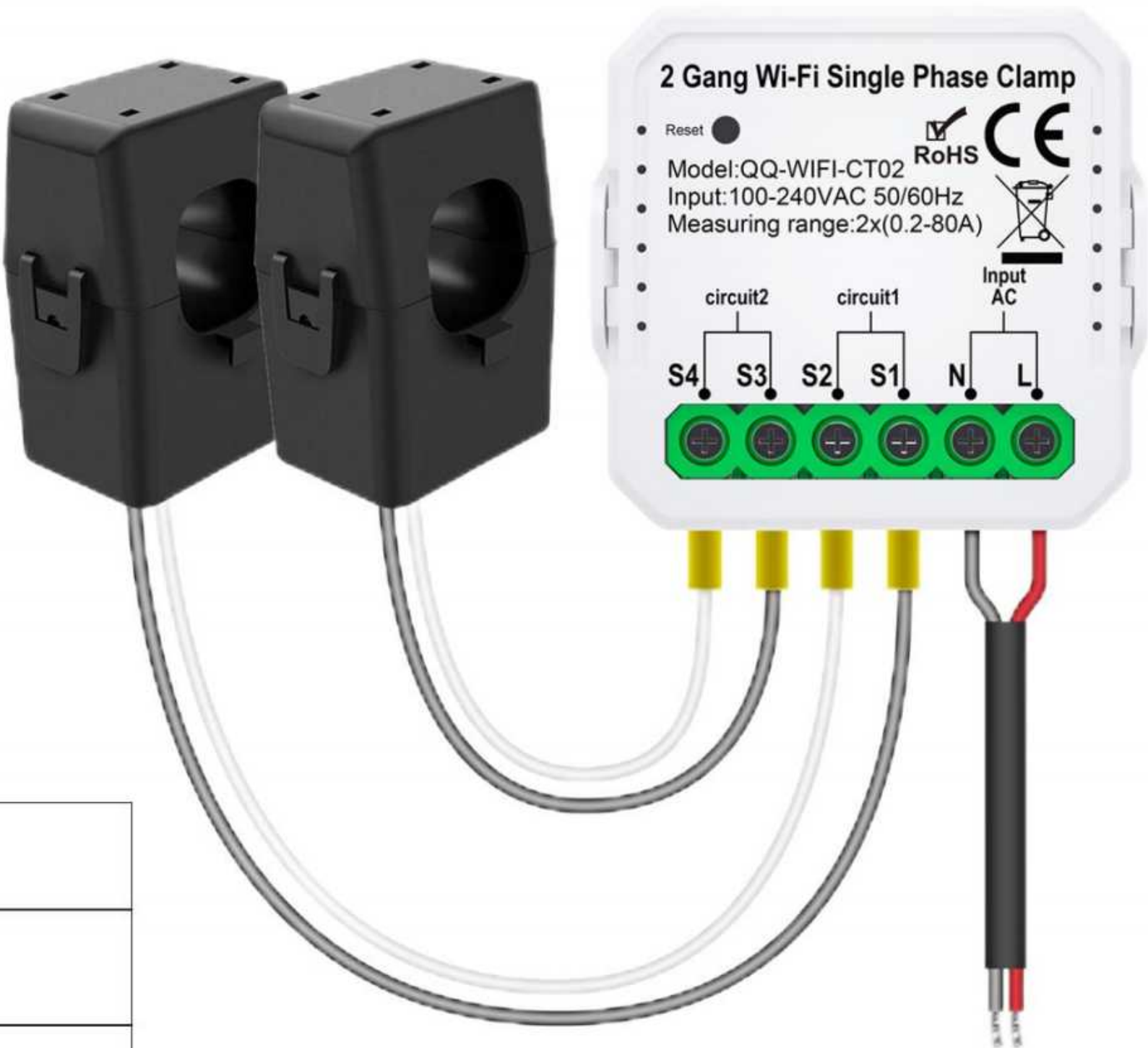
Smart 2 Gang Single Phase Clamp

Function

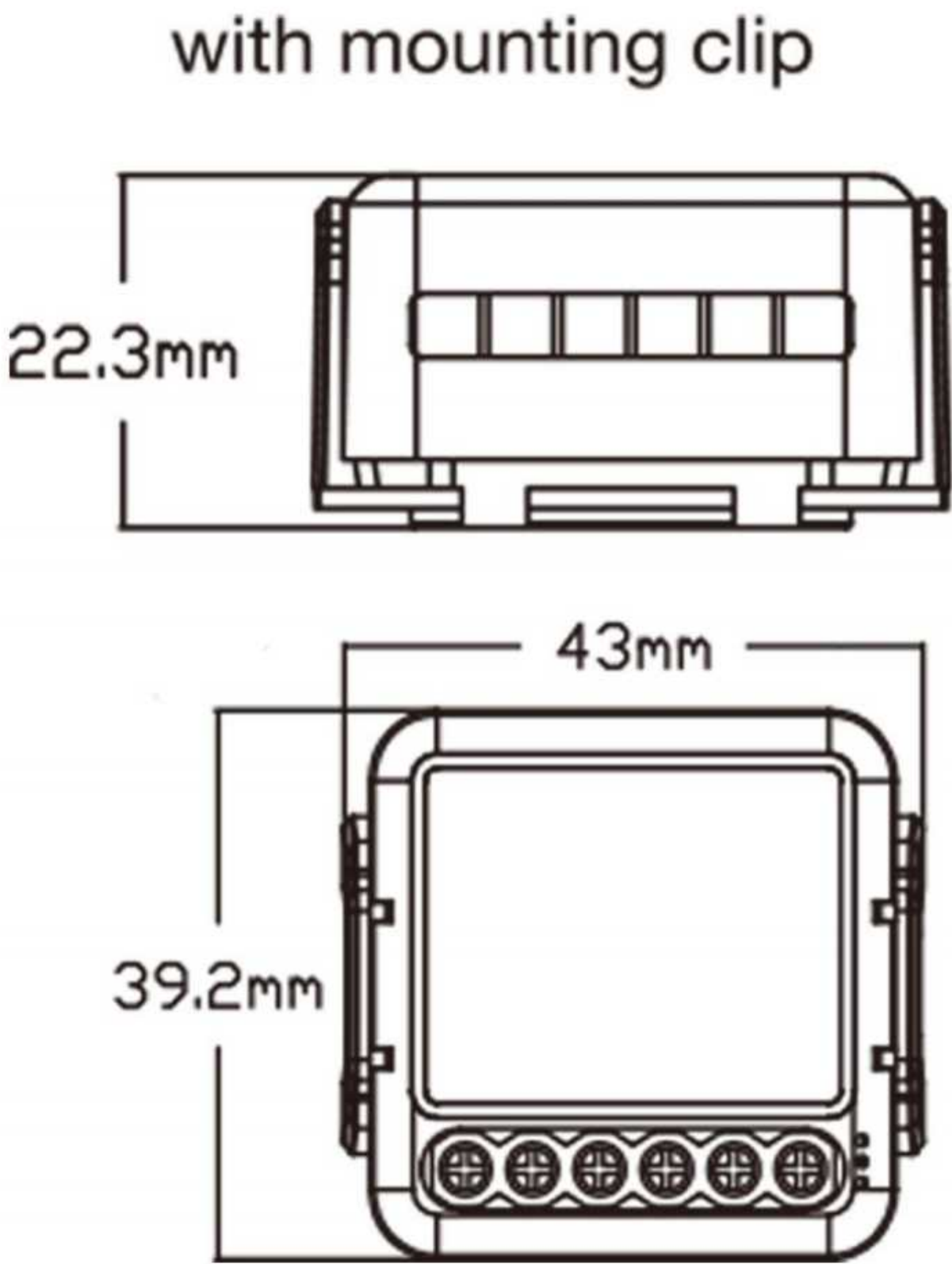
- ◆ Energy Monitoring
- ◆ Remote Control
- ◆ Real-time Voltage, Real-time Current, Active Power
- ◆ Alarm Alert
- ◆ Warn Power

Technical Data

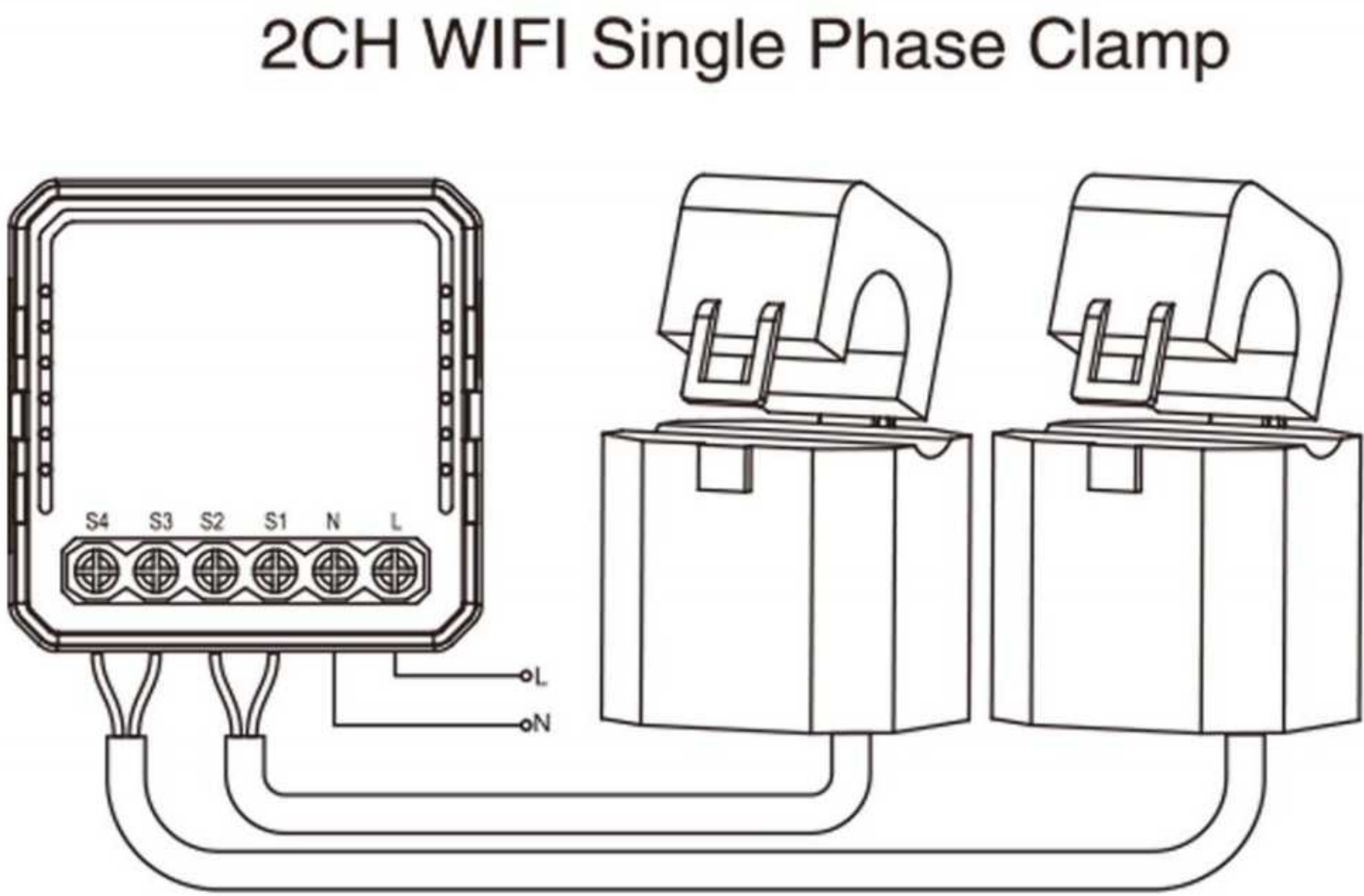
Input	100-240V,50/60Hz
Max.	2*(0.2-80A)
Operation Frequency	WiFi:2.4GHz~2.4835GHz WiFi 802.11 b/g/n
Operation Temp.	-10℃ - +40℃
Operation Range	≤ 100 m
IP Rating	IP20
Dims (WxDxH)	39.2x39.2x18mm



Product Size



Wiring Diagrams



LARKKEY

Smart Energy Smart Life