

# Energy Management

## Watt-hour Meter



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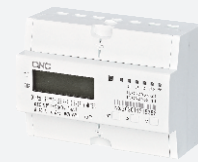
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# Energy Management

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## DDS226 Electronic Single-phase Meter



### DDS226 Single-phase Electronic Energy Meter

#### General

The DDS226 type single-phase electronic watt-hour meter adopts exclusive using LSI, the device typifying new periphery component, simple structure, high reliability, low power consumption, long life etc, is suitable for the single-phase AC active electric energy with rated frequency of 50Hz.

#### Function and features

1. Measure active electric energy, no need of calibration for long-term operation;
2. Adopt dedication meter age chip ADE7755;
3. Adopt lasted electricity dedication integrated circuit including digital multiplier overseas, greatly improved dynamic working range of Meter, making 1 multiple actual overload;
4. Have a good mistake linearity at a range of 5%I<sub>b</sub>~I<sub>max</sub>;
5. Few periphery component, simple structure, low power consumption;
6. Adopt high reliability and long life electronic component, so the meters assume features of high reliability and long life.

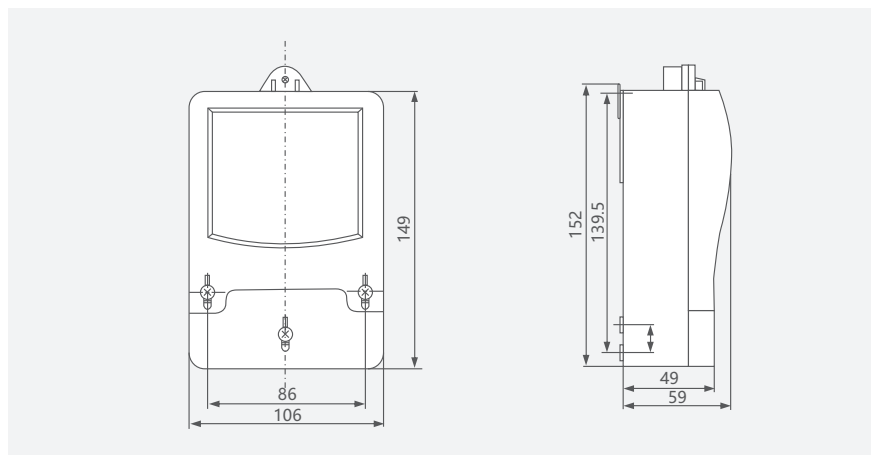
\*Way of display: LCD.

\*Remote interruption of power supply function.

#### Specifications

Rated current (A)	Rated voltage (V)	Rated Frequency (Hz)	Accuracy Class
1.5(6), 2.5(10), 5(20), 5(30), 10(40) 10(60), 15(60), 20(80), 30(100)	220 or 240	50 or 60	Class 1 or class 2

#### Overall and mounting dimensions(mm)



## DDS226-1 Single Phase Static Watt Hour Meter



### DDS226-1 Single Phase Static Watt Hour Meter

#### General

The meter is designed to measure single phase two wire AC active energy. It adopt LSI and SMT technology, the key component are long life international brand product. All of its functions comply with the relative technical requirement for class 1 single phase watt hour meter in IEC62053-21. It is a long life meter with the advantage of high stability, high over load capability, low power loss and compact size.

#### Basic Function

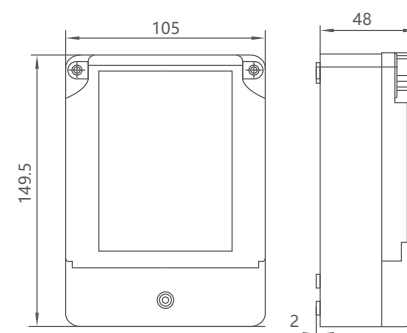
1. Mechanical step register 5+1(default), anti-reverse protection or LCD display 6+1 or 5+2;
2. Bi-directional total active energy measurement, reverse active energy measure in the total active energy;
3. Pulse LED indicates working of meter, Pulse output with optical coupling isolation;
4. Reverse LED indicates the reverse current direction or wire reverse connect;
5. Two type of cases (protective-class I and II) are available.

#### Optional Function

Ultrasonic weld sealing between meter cover and meter base, not used screw.

#### Specifications

Technical Index	Specification
Rate voltage	110V,120V,220V,230,240V
Working voltage range	0.8~1.2U <sub>n</sub>
Rate Current	1.5(6)A,10(40)A,5(60)A,10(100)A, or special required
Frequency	50Hz or 60Hz
Connection mode	CT type or Direct type
Display	mechanical step register or LCD
Accuracy class	1.0
Power consumption	<1W/10VA
Start current	0.004I <sub>b</sub>
AC voltage withstand	4000V/25mA for 60 sec
Impulse Voltage	6kV 1.2μs waveform
IP grade	IP51 or IP54
Constant	800~6400 imp/kWh
Pulse output	Passive pulse, pulse width is 80+5 ms
Executive standard	IEC61036, IEC62053-21, IEC62052-11
Work temperature	-30°C~70°C
Outline dimension L×M×H	149.5×105×48mm
Weight	Approx 0.4kg



## DDSY726 Single Phase Prepayment Watt Hour Meter



### DDSY726 Single Phase Prepayment Watt Hour Meter

#### General

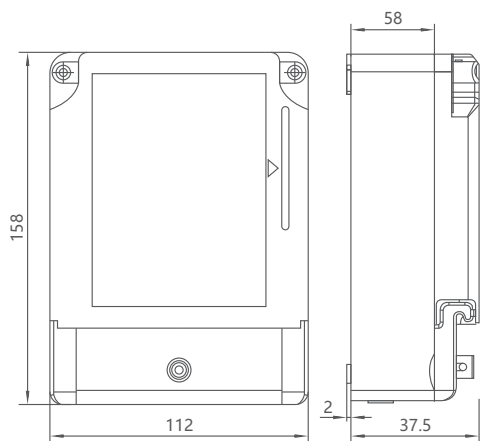
The DDSY726 type single phase prepayment meter is a new type IC card prepayment meter which has such function as power metering, load control and customer information management. It is an ideal product when reforming electric-use system, achieving electrical energy to commercialize, setting charge and adjusting load stage in the power network. It adopt LSI and SMT technology, the key component are long life international brand product. All of its functions comply with the relative technical requirement for class 1 single phase watt hour meter in IEC62053-21.

#### Function and features

1. LCD display 6+2
2. Bi-directional total active energy measurement ,reverse active energy measure in the total active energy
3. Each user responds to a card , well protect from forgery
4. Once the electric consumption is used up , it should be cut off automatically
5. Auto cut-off for overload
6. The IC card power selling control system has the function as power selling and using control
7. Pulse LED indicates working of meter, Pulse output with optical coupling isolation
8. Two type of cases (protective-class I and II) are available

#### Specifications

Technical Index	Specification
Rate voltage	110V,120V,220V,230,240V
Working voltage range	0.8~1.2Un
Rate Current	10(40)A,5(60)A,10(100)A, or special required
Frequency	50Hz or 60Hz
Connection mode	Direct type
Display	LCD
Accuracy class	1.0
Power consumption	<1W/10VA
Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60 sec
Impulse Voltage	6kV 1.2μs waveform
IP grade	IP51
Constant	800~6400 imp/kWh
Pulse output	Passive pulse, pulse width is 80+5 ms
Executive standard	IEC61036, IEC62053-21, IEC62052-11
Work temperature	-30°C~70°C
Outline dimension L×M×H	158×112×60mm
Weight	Approx 0.5kg



## DTS726-LCD Electronic Three-phase Meter



### DTS726 Three-phase Electronic Energy Meter

#### General

The meter is used in three phase four wire power grid. The meter is designed to measure AC active energy. All of its functions comply with the relative technical requirement for class 1 three phase watt hour meter in IEC62053-21. It is a long life meter with the advantage of high stability, high over load capability, low power loss.

#### Basic Function

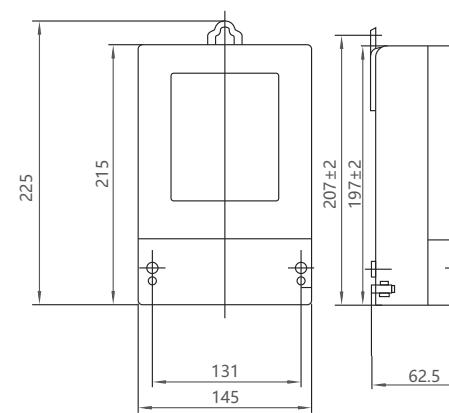
1. Mechanical step register 5+1(default) , 6 digit no decimal OR LCD display 6+1, 5+2;
2. Bi-directional total active energy measurement ,reverse active energy measure in the total active energy;
3. Three phase power supply , the meter also measure when loss one phase (any one wire in three phase three wire ) or when loss two phase (any two in three phase four wire);
4. Loss phase LED indicates working of phase;
5. Pulse LED indicates working of meter, Pulse output with optical coupling isolation;
6. Two type of cases (protective-class I and II) are available.

#### Optional Function

1. Internal connection between the voltage circuit hook and current circuit hook in order to anti-tamer.

#### Specifications

Technical Index	Specification
Rate voltage	DTS726 three phase four wire 3×57.7/100V, 3×127/220V, 3×120/208V, 3×220/380V, 3×230/400V, 3×240/415V
Working voltage range	0.8~1.2Un
Rate Current	5A/CT,1.5(6)A,5(30)A,10(40)A,5(60)A,20(80)A,10(100)A, or other as required
Frequency	50Hz or 60Hz
Connection mode	CT type or Direct type
Display	mechanical step register or LCD
Accuracy class	Active class 1.0
Power consumption	0.5W/8VA each phase
Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60 sec
Impulse Voltage	6kV 1.2μs waveform
IP grade	IP51 or IP54
Constant	400~6400 imp/kWh
Pulse output	Passive pulse, pulse width is 80+5 ms
Executive standard	IEC62053-21, IEC62052-11
Work temperature	-30°C~70°C
Outline dimension L×M×H	215×145×69mm (short terminal cover L1) 260×145×69mm (long terminal cover L2)
Weight	Approx 1.2kg



## DTSY726 Three Phase Prepayment Watt Hour Meter

### DTSY726 Three Phase Prepayment Watt Hour Meter

#### General

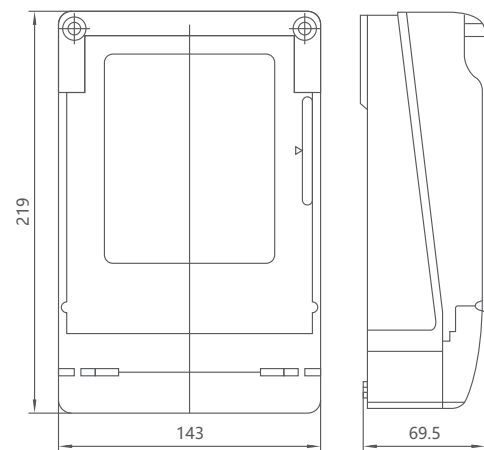
The DTSY726 type three phase prepayment meter is a new type IC card prepayment meter which has such function as power metering, load control and customer information management. It is an ideal product when reforming electric-use system, achieving electrical energy to commercialize, setting charge and adjusting load stage in the power network. It adopt LSI and SMT technology, the key component are long life international brand product. All of its functions comply with the relative technical requirement for class 1 single phase watt hour meter in IEC62053-21.

#### Function and features

1. LCD display 6+2
2. Bi-directional total active energy measurement, reverse active energy measure in the total active energy
3. Each user responds to a card, well protect from forgery
4. Once the electric consumption is used up, it should be cut off automatically
5. Auto cut-off for overload
6. The IC card power selling control system has the function as power selling and using control
7. Pulse LED indicates working of meter, Pulse output with optical coupling isolation
8. Two type of cases (protective-class I and II) are available

#### Specifications

Technical Index	Specification
Rate voltage	3×220/380, 3×230/240, 3×240/415V
Working voltage range	0.8~1.2Un
Rate Current	1.5(6)A,10(40)A,15(60)A,10(100)A, or special required
Frequency	50Hz or 60Hz
Connection mode	CT type or Direct type
Display	LCD
Accuracy class	1.0
Power consumption	<1W/8VA each phase
Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60 sec
Impulse Voltage	6kV 1.2μs waveform
IP grade	IP51
Constant	800~6400 imp/kWh
Pulse output	Passive pulse, pulse width is 80+5 ms
Executive standard	IEC61036, IEC62053-21, IEC62052-11
Work temperature	-30°C~70°C
Outline dimension L×M×H	228×144×72mm
Weight	Approx 1.3kg



## DDS226D-1P M Din-rail Single-phase Meter

### DDS226D-1P M Single-phase Din-rail Energy Meter (One Module with RS485)

#### General

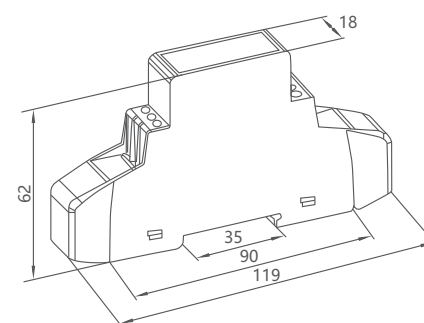
The meter is designed to measure single phase two wire AC active energy like residential, utility and industrial application. It has remote read communication port RS485. It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

#### Basic Function

1. LCD display with backlight;
2. Bi-directional total active energy, reverse active energy measure in the total active energy;
3. The meter also display real voltage, real current, real power, real power factor, real frequency, import active energy, export active energy;
4. Keypad for LCD display step by step
5. Reset energy function (the reset energy kWh display is dependent with the total energy display, this reset will not affect the total energy)
6. RS485 communication port, MODBUS-RTU protocol
7. Pulse LED indicates working of meter, Pulse output with optical coupling isolation
8. Energy data can store in memory chip more than 15 years after power off
9. 35mm din rail installation

#### Specifications

Technical Index	Specification
Rate voltage	110V,120V,220V,230,240V
Working voltage range	0.8~1.2Un
Rate Current	5(40)A,5(45)A
Frequency	50Hz or 60Hz +10%
Connection mode	Direct type
Display	LCD
Accuracy class	1.0
Power consumption	<2W/10VA
Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60 sec
Impulse Voltage	6kV 1.2μs waveform
Over current withstand	30I <sub>max</sub> for 0.01s
IP grade	IP20
Constant	2000 imp/kWh
Pulse output	Passive pulse, pulse width is 80+5 ms 5~27VDC, Max current input 27mA DC
Communication port	RS485 port, baud rate 1200~9600 bps, default is 9600bps, address 1~247, None parity, stop bits 1, data bits 8.
Executive standard	DIN 43880, IEC62053-21, IEC62052-11, MODBUS-RTU
Outline dimension L×M×H	119×18×62mm (long terminal cover)
Weight	Approx 0.09kg





## DDS226D-1P Din-rail Single-phase Meter

### DDS226D-1P Single-phase Din-rail Energy Meter

#### General

DDS226D-1P single phase DIN-rail watt-hour meter is a kind of new style single phase electrical watt-hour meter, it adopts micro-electronics technique, and imported large scale integrate circuit, use advanced technique of digital and SMT techniques etc. The meter completely accord with relevant technical requirements of class 1 and class 2 single phase energy meter stipulated in National Standard GB/T17215-2002 and International Standard IEC62053-21(IEC61036). It can accurately and directly measure 50/60Hz active energy consumption from single phase AC electricity net, it can display total energy consumption by step type impulse register. It has following features: good reliability, small volume, light weight, specious appearance, convenient installation, etc.

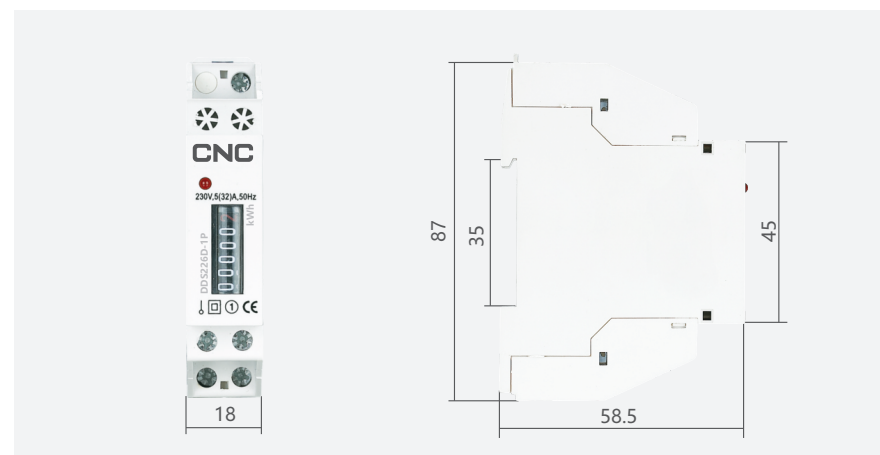
#### Function and features

1. 35 mm standard DIN rail installation, complying with standard DIN EN5002
2. 18 mm width, complying with standard DIN43880
3. May select step motor type impulse register display (5+1) 99999.9kwh or LCD digital display 99999.9kwh(5+1), 999999.9keh(6+1), 99999.99kwh(5+2)
4. Standard configuration one port of pulse output passive(polarity)
5. Standard configuration one neutral(N) wire connect, may select two neutral wire connect(N-in, N-out) (as special required)
6. LCD display meter can select 9999999wh(equal to 9999.999kwh), which suit to measure small power consumption(as special required)

#### Specifications

Type	Accuracy Class	Rated Voltage (V)	Rated Current (A)	Staring Current	Insulation Performance
DDS226D-1P	Class 1	220V, 230V 240V	5(25)A, 5(30)A 5(45)A	0.4%Ib	AC voltage 2KV for 1 min, impulse voltage 6KV

#### Overall and mounting dimensions(mm)



## DDS226D-2P Din-rail Single-phase Meter

### DDS226D-2P Single-phase Din-rail Energy Meter

#### General

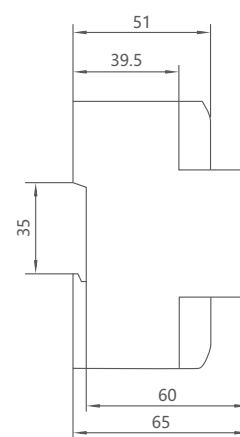
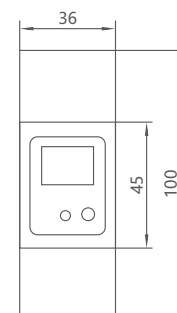
The meter is designed to measure single phase two wire AC active energy like residential, utility and industrial application. It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume .

#### Basic Function

1. LCD display 5+1(default) or 4+2 kWh, Display;
2. Bi-directional total active energy measurement, reverse active energy measure in the total active energy;
3. Pulse LED indicates working of meter, Passive pulse output with optical coupling isolation;
4. Energy data can store in memory chip more than 15 years after power off;
5. 35mm din rail installation.

#### Specifications

Technical Index	Specification
Rate voltage	110V,120V,220V,230,240V
Working voltage range	0.8~1.2Un
Rate Current	5(65)A, 10(100)A, or special required
Frequency	50Hz or 60Hz +10%
Connection mode	Direct type
Display	LCD
Accuracy class	1.0
Power consumption	<1W/10VA
Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60 sec
Impulse Voltage	6kV 1.2μs waveform
Over current withstand	30I <sub>max</sub> for 0.01s
IP grade	IP20
Constant	1000~2000 imp/kWh
Pulse output	Passive pulse, pulse width is 80+5 ms 5~27VDC, Max current input 27mA DC
Executive standard	DIN 43880, IEC62053-21, IEC62052-11
Outline dimension L×M×H	100×36×65mm
Weight	Approx 0.14kg



## DDS226D-2P WIFI Din-rail Single-phase Meter



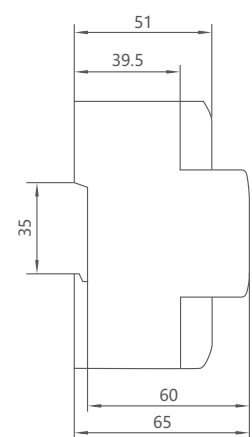
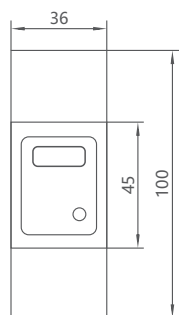
### DDS226D-2P WIFI Single-phase Din-rail Energy Meter

#### General

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. It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

#### Basic Function

1. LCD display, button for LCD display step by step
2. Bi-directional total active energy, reverse active energy measure in the total active energy
3. The meter also display real voltage, current, active power, reactive power, power factor, frequency
4. Timing and delay control by APP
5. History active energy consumption tracking by APP
6. Check the real current, voltage active power by APP
7. Remote control on/off by APP
8. WIFI communication, can read and remote control by mobile phone APP
9. Pulse LED indicates working of meter, Pulse output with optical coupling isolation
10. Energy data can store in memory chip more than 15 years after power off
11. 35mm din rail installation



#### Specifications

Technical Index	Specification		
Rate voltage AC	110V~270V(0.8~1.2Un)		
Rate Current/Frequency	5(65)A 50Hz or 60Hz±10%		
WIFI	802.11b/g/n		
Connectin mode	Direct type	Accuracy class	1% or 0.5%
Power consumption	<1W/10VA	Start current	0.004lb
AC voltage withstand	4000V/25mA for 60s	Over current withstand	30Imax for 0.01s
IP grade	IP20	Executive standard	IEC62053-21 DIN 43880
Work temperature	-25°C~70°C	Pulse output	Passive pulse, 80±5ms

## DDS226D-4P WIFI Din-rail Single-phase Meter



### DDS226D-4P WIFI Din-rail Single-phase Meter

#### General

The meter is designed to measure single phase two wire AC active energy variable parameter like residential, utility and industrial application. It has remote read communication port RS485 and WIFI. It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

#### Basic Function

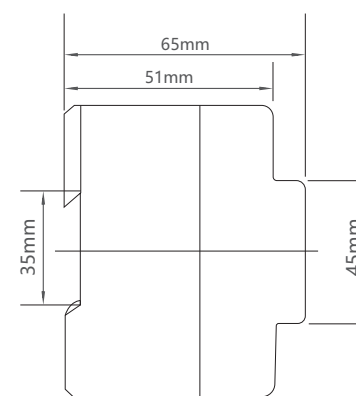
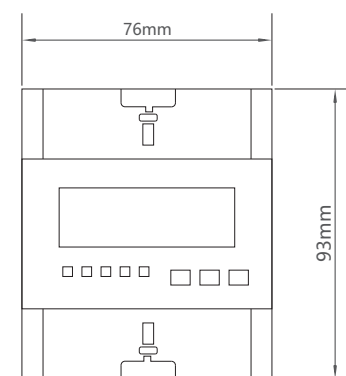
1. LCD display, touch button for LCD display step by step;
2. Bi-directional total active energy, reverse active energy measure in the total active energy;
3. The meter also display real voltage, real current, real power, real power factor, real frequency, import active energy, export active energy;
4. Overvoltage protection, overload protection;
5. Timing and delay control by mobile phone;
6. RS485 communication port, MODBUS-RTU protocol;
7. WIFI communication, can read and remote control by mobile phone;
8. Pulse LED indicates working of meter, Pulse output with optical coupling isolation;
9. Energy data can store in memory chip more than 15 years after power off;
10. 35mm din rail installation, bottom type wire connection.

#### Optional Function

Select outer WIFI antenna.

#### Specifications

Technical Index	Specification
Rate voltage	110V~270V(wide voltage operation)
Working voltage range	0.8~1.2Un
Rate Current	5(60)A
Frequency	50Hz or 60Hz +10%
Connection mode	Direct type
Display	LCD
Accuracy class	1.0
Power consumption	<1W/10VA
Start current	0.004lb
AC voltage withstand	4000V/25mA for 60 sec
Impulse Voltage	6kV 1.2μs waveform
Over current withstand	30Imax for 0.01s
IP grade	IP20
Constant	1600~3200 imp/kWh
Pulse output	Passive pulse, pulse width is 80+5 ms
Communication port	RS485 port, baud rate 1200~9600 bps, default is 9600bps, address 1~247, None parity, stop bits 1, data bits 8.
Executive standard	DIN 43880, IEC62053-21, IEC62052-11, MODBUS-RTU
Outline dimension L×M×H	93×76×78mm
Technical Index	Approx 0.36kg



## DTS726D-7P M Din-rail Three-phase Meter



### DTS726D-7P M Three-phase Din-rail Mount Multi-function Energy Meter

#### General

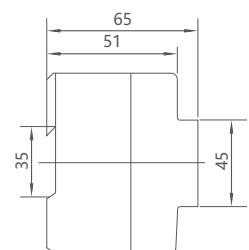
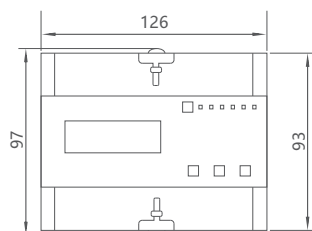
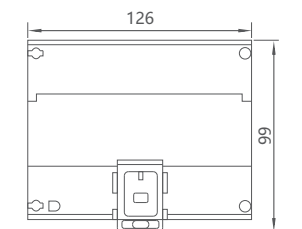
The meter is used in three phase four wire power grid. The meter is designed to measure AC active energy and variable parameter. All of its functions comply with the relative technical requirement for class 1 three phase watt hour meter in IEC61036 and its data communication rules obey the requirement of DL/T645 or MODBUS-RTU. It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

#### Basic Function

1. LCD display with backlight;
2. Bi-directional total active energy measurement, reverse active/ energy measure in the total active/reactive energy;
3. The meter also display real voltage, real current, real power, real power factor, real frequency, import active energy, export active energy;
4. Keypad for LCD display step by step;
5. Pulse LED indicates working of meter, Pulse output with optical coupling isolation;
6. Loss phase indication in LCD;
7. Energy data can store in memory chip more than 15 years after power off;
8. RS485 communication port, MODBUS-RTU protocol;
9. 35mm din rail installation.

#### Specifications

Technical Index	Specification
Rate voltage	DTS726D-7P M three phase four wire 3×127/220V, 3×120/208V, 3×220/380V, 3×230/400V, 3×240/415V
Working voltage range	0.8~1.2Un
Rate Current	5A/CT,1.5(6)A, ,5(60)A,10(100)A,or other as required
Frequency	50Hz or 60Hz
Connection mode	CT type or Direct type
Display	LCD
Accuracy class	1.0
Power consumption	<2W/10VA /each phase
Start current	0.004Ib
Impulse Voltage	6kV 1.2μs waveform
Over current withstand	30I <sub>max</sub> for 0.01s
IP grade	IP20
Constant	400~6400 imp/kWh
Pulse output	Passive pulse, pulse width is 80+5 ms
Communication port	RS485 port, baud rate 1200~9600 bps, default is 9600bps, address 1~247, None parity, stop bits 1, data bits 8.
Executive standard	DIN 43880, IEC62053-21, IEC62052-11,MODBUS-RTU
Work temperature	-30°C~70°C
Outline dimension L×M×H	125×88×73mm
Weight	Approx 0.7kg



## DTS726D-7P Din-rail Three-phase Meter



### DTS726D-7P Three-phase Din-rail Energy Meter

#### General

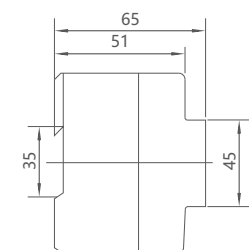
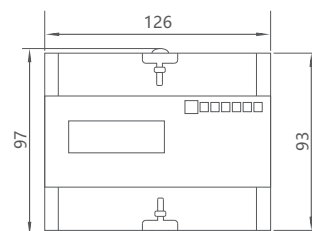
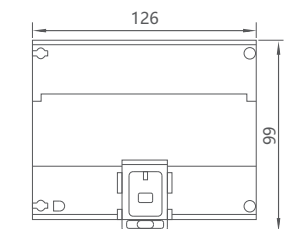
The meter is used in three phase four wire/three phase three wire /wo phase three wire power grid.The meter is designed to measure AC active energy. It is a long life meter with the advantage of high stability,high over load capablity,low powerloss and small volume.

#### Function and features

1. Mechanical step register or LCD display
2. Bi-directional total active energy measurement,reverse active energy measure in the total active energy
3. Pulse LED indicates working of meter,Pulse output with optical coupling isolation
4. Loss phase LED indication, Reverse connection LED indication
5. For LCD display type meter,Energy data can store in memory chip more than 15 years after power off
6. 35mm din rail installation

#### Specifications

Technical Index	Specification
Rate vltage AC	DTS726D-7P three phase four wire 3×120/208V,3×220/380V,3×230/400V,3×240/415V
Working voltage range	0.8~1.2Un
Rate Current	5ACT,1.5(6)A,5(60)A,10(100)A,or other as required
Frequency	50Hz or 60Hz
Connection mode	CT type or Direct type
Display	mechanical step register or LCD
Accuracy class	1.0
Power consumption	<0.5W/5VA/each phase
Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60 sec
Impulse Voltage	6kV 1.2 μs waveform
IP grade	IP20
Constant	400~6400 imp/kWh
Pulse output	Passive pulse,pulse width is 80±5ms
Executive standard	DIN 43880,IEC62053-21,IEC62052-11
Work temperature	-30°C~70°C
Outline dimension L×M×H	125×88×73mm
Operating temperature	-25°C~55°C
Storage temperature	-40°C~80°C
Reference temperature	23°C±2°C
Relative humidity	0 to 95%,non-condensing
Altitude	Up to 2500m
Warm up time	10s
Mechanical Environment	M1
Electromagnetic Environment	E2
Degree of pollution	2



## DTS726D-7P WIFI Din-rail Three-phase Meter



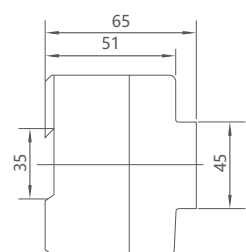
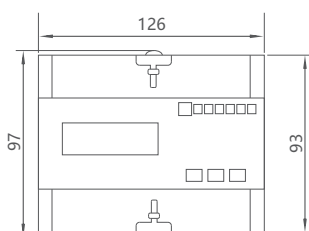
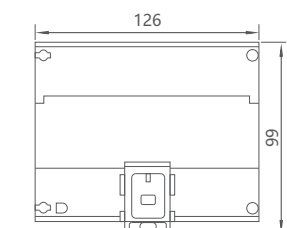
### DTS726D-7P Three-phase Din-rail Energy Meter

#### General

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 communication port RS485 and WIFI (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.

#### Function and features

1. LCD display with backlight, keypad for LCD display step by step
2. Bi-directional total active energy measurement, reverse active/ energy measure in the total active/reactive energy
3. The meter also display real voltage, current, active power, reactive power, power factor, frequency, import active energy, export active energy, reactive energy
4. timing and delay control by APP
5. Day/Month/Year history active energy consumption tracking by APP
6. Check the A phase real current, A phase voltage, conjunction phase active power by APP
7. Remote control on/off by APP
8. Manual Control by button under lose WIFI
9. RS485 communication port, MODBUS-RTU protocol
10. WIFI communication, can read and remote control by APP
11. Pulse LED indicates working of meter, Pulse output with optical coupling isolation
12. Loss phase LED indication, WIFI connection LED indication
13. Energy data can store in memory chip more than 15 years after power off
14. 35mm din rail installation, bottom type wire connection



#### Specifications

Technical Index	Specification		
Rate voltage AC	3x120/208V, 3x230/400V, x240/415V (0.8-1.2Un)		
Rate Current/Frequency	5A/CT, 1.5(6)A, 5(60)A, 10(80)A/50Hz or 60Hz±10%		
WIFI	802.11b/g/n		
Communication port	RS485 port, baud rate 1200-9600 bps, default is 9600bps, address 1-247, None parity, stop bits 1, data bits 8.		
Connectin mode	CT or Direct type	Accuracy class	1% or 0.5%
Power consumption	<1W/10VA each phase	Start current	0.004Ib
AC voltage withstand	4000V/25mA for60s	Over current withstand	30Imax for 0.01s
IP grade	IP20	Executive standard	IEC62053-21 IE62052-11
Work temperature	-25°C~70°C	Pulse output	Passive pulse, 80±5ms

## YC-96&YC-72 Panel Meter



#### YC-96/ YC-72 AC A Electromagnetic Series (moving iron) Ac Ammeter

Accuracy class: 1.5(The DC 60A or more is 2.5)

Specifications:

0.5A 1A 1.5A 3A 5A 7.5A 10A 15A 20A 25A 30A 40A 50A 60A 80A 100A

More than 100A connecting inferior 5A or 1A of current transformer outside



#### YC-96/ YC-72 AC V Electromagnetic Series (moving iron) AC Voltmeter

Accuracy class: 1.5

Specifications:

30V 50V 75V 100V 120V 150V 200V 250V 450V 500V 600V

More than 600V connecting inferior 100V of voltage transformer outside.



#### YC-96/ YC-72 DC A Electromagnetic Series (moving coil) DC Ammeter

Accuracy class: 1.5

Specifications:

50uA 100uA 150uA 500uA 1mA 2mA 5mA 10mA 20mA 30mA 50mA 75mA 100mA  
150mA 200mA 250mA 300mA 500mA 1A 2A 3A 7.5A 10A 20A 30A 50A 60A.

More than 20A connecting 50mV, 60mV or 75mV of shunt Outside.



#### YC-96/ YC-72 DC V Electromagnetic Series (moving coil) DC Voltmeter

Accuracy class: 1.5

Specifications:

50mV 60mV 75mV 100mV 3V 5V 7.5V 10V 15V 20V 30V 50V 75V 100V 120V 150V  
200V 250V 300V 400V 450V 500V 600V,

More than 600V connecting with Quota Resistors (Rated current 1mA)



**YC-96&YC-72 Panel Meter**



**YC-96 Hz/ YC-72 Hz Pointer Frequency Table**

Accuracy class: 0.5 or 1.0  
 Voltage: 110V, 220V, 380V, 415V, 440V  
 Frequency: 45-55Hz, 45-65Hz, 55-65Hz, 47-53Hz, 57-63Hz



**YC-96/ YC-72 COS Power Factor Meter**

Accuracy class: 2.5  
 Three-phase voltage: 110V, 220V, 380V, 415V, 440V/1A or 5A  
 Single phase voltage: 110V, 220V/1A or 5A  
 Frequency: 50/60Hz  
 Specifications: 0.5cap-1-0.5ind



**YC-96/ YC-72 KW Power Meter**

Accuracy class: 1.5  
 Single phase voltage: 100V, 110V, 220V  
 Three-phase three-wire voltage: 100V, 110V, 220V, 380V, 415V(Balanced load or unbalanced load)  
 Current: Input Current more than 10A connecting inferior 1A or 5A of current transformer outside, otherwise allowing direct access according to the current value.  
 Frequency: 50/60Hz

**YC-48 Panel Meter**



**YC-48 AC A Electromagnetic Series (moving iron) AC Ammeter**

Accuracy class: 1.5 (The DC 60A or more is 2.5)  
 Specifications:  
 0.5A 1A 1.5A 3A 5A 7.5A 10A 15A 20A 25A 30A 40A 50A 60A 80A 100A  
 More than 100A connecting inferior 5A or 1A of current transformer outside



**YC-48 AC V Electromagnetic Series (moving iron) AC Voltmeter**

Accuracy class: 2.5  
 Specifications:  
 30V 50V 75V 100V 120V 150V 200V 250V 450V 500V 600V  
 More than 600V connecting inferior 100V of voltage transformer outside.



**YC-48 L DC A Electromagnetic Series (moving coil) DC Ammeter**

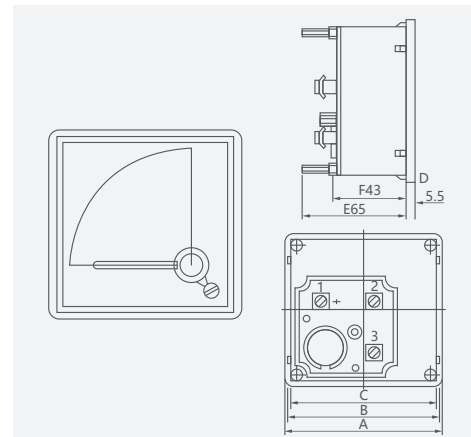
Accuracy class: 2.5  
 Specifications:  
 100uA 150uA 500uA 1mA 2mA 5mA 10mA 20mA 30mA 50mA 75mA 100mA 1A 2A 3A 7.5A 10A 20A 30A 50A  
 More than 20A connecting 50mV, 60mV or 75mV of shunt Outside.



**YC-48 DC V Electromagnetic Series (moving coil) DC Voltmeter**

Accuracy class: 2.5  
 Specifications:  
 50mV 60mV 75mV 100mV 3V 5V 7.5V 10V 15V 20V 30V 50V 75V 100V 120V 150V 200V 250V 300V 400V 450V 500V 600V,  
 More than 600V connecting with Quota Resistors (Rated current 1mA)

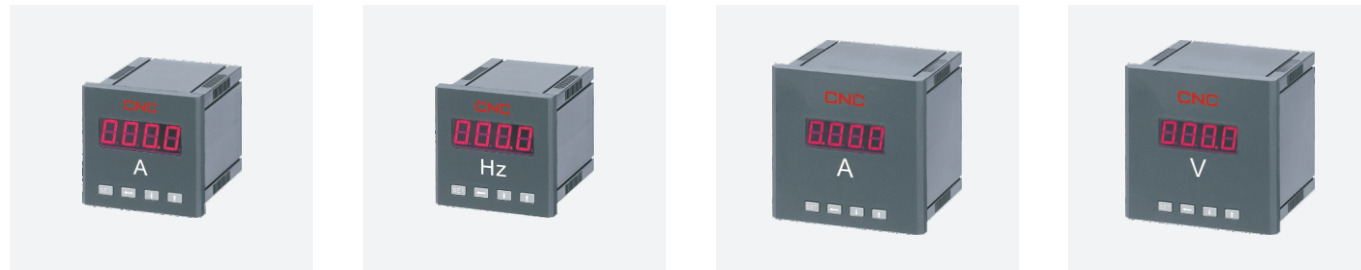
**Outline and Dimensions**



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Hole Size
YC-120	120	112	112	55	65	43	113×113
YC-96	96	91	90	55	65	43	92×92
YC-82	82	76	75	55	65	43	76×76
YC-72	72	67	66	55	65	43	68×68
YC-48	48	43	42	55	65	43	44.5×44.5
YC-99T1	48	43	42	55	65	43	44.5×44.5



## Energy Management Digital Meter



### 1. Technical parameters

#### Measuring range:

Digital AC Ammeter: Direct measurement: AC 0~5A; Accessory device: AC 0~9999A(CT \*/ 5A).

Digital DC Ammeter: Direct measurement: DC 0~5A; Accessory device: DC 0~9999A(Shunt \*/ 75mV).

Digital AC Voltmeter: Direct measurement: AC 0~600V; Accessory device: AC 0~9999KV(PT \*/ 100V)

Digital DC Voltmeter: Direct measurement: DC 0~600V

Digital Frequency Meter: 30.00~99.99Hz(AC 30~500V)

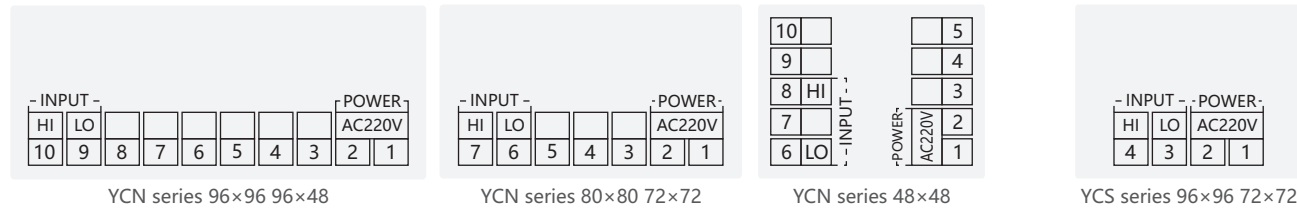
**Accuracy rating:** ±0.5 % FS±1 digit.

**Measuring display mode:** RMS measurement, four-digit LED nixietube display.

**Auxiliary power supply:** AC 220V,50/60Hz(Can customize other values:DC 24V,DC 48V,AC/DC 85~265V).

### 2. Terminal arrangement

Attention: If it is not the same with the wiring schema of diagram behind case, please accord to the one of diagram behind case.



### 3. Model and Specification

Model	Function & Shape	Measure & Display			shape code(Figuer Inside□)					Selected Additional Functions		
		Current	Voltage	Frequency	⑨ 96×96	⑧ 80×80	⑦ 72×72	⑤ 96×48	④ 48×48	Communication interface:RS485	2-channels switch output	1-channels analog output
YCS-□K1-I		•			√		√	√				
YCS-□K1-U			•		√		√	√				
YCS-□K1-F				•	√		√	√				
YCN-□K1-I		•			√	√	√	√	√			
YCN-□K1-U			•		√	√	√	√	√			
YCN-□K1-F				•	√	√	√	√	√			
YCN-□K1-I+RS		•			√	√	√	√		+		
YCN-□K1-U+RS			•		√	√	√	√		+		
YCN-□K1-F+RS				•	√	√	√	√		+		
YCN-□K1-I+2DO		•			√	√	√	√			+	
YCN-□K1-U+2DO			•		√	√	√	√			+	
YCN-□K1-F+2DO				•	√	√	√	√			+	
YCN-□K1-I+1AO		•			√	√	√	√				+
YCN-□K1-U+1AO			•		√	√	√	√				+
YCN-□K1-F+1AO				•	√	√	√	√				+

## Energy Management Digital Meter



### 1. Technical parameters

#### Measuring range:

Digital Power Factor Meter:0.000C~0.500C~1.000~0.500L~0.000L.

Digital Active Power Meter: 0~999W~999KW~9999MW.

**Signal input:** Voltage: AC 0~500V(PT \*/ 100V),Current: AC 5A (CT \*/ 5A or 1A).

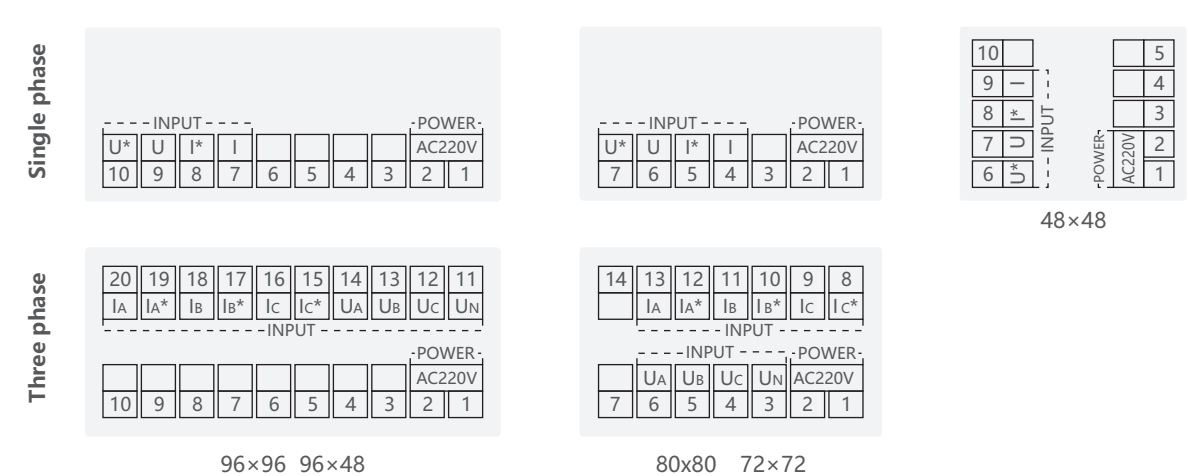
**Accuracy rating:** ±0.5 % FS±1 digit.

**Measuring display mode:** RMS measurement, four-digit LED nixietube display.

**Auxiliary power supply:** AC 220V,50/60Hz(Can customize other values:DC 24V,DC 48V,AC/DC 85~265V).

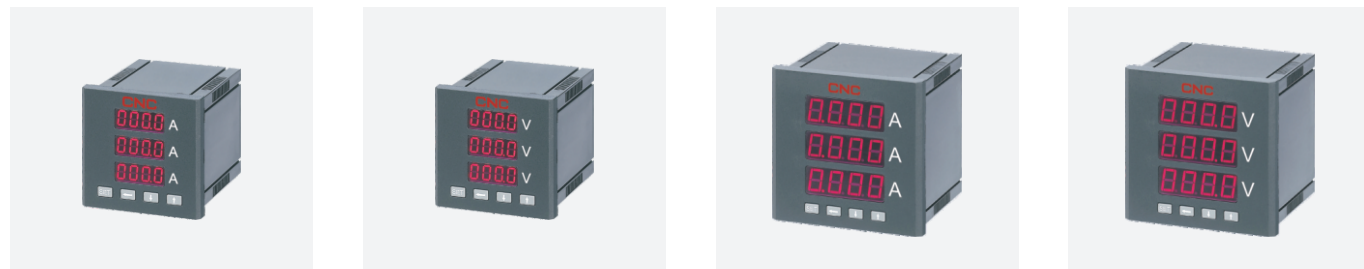
### 2. Terminal arrangement

Attention: If it is not the same with the wiring schema of diagram behind case, please accord to the one of diagram behind case.



### 3. Model and Specification

Model	Function & Shape	Measure & Display				shape code(Figuer Inside□)					Selected Additional Functions
		1-phase power factor	1-phase active power	3-phase power factor	3-phase active power	⑨ 96×96	⑧ 80×80	⑦ 72×72	⑤ 96×48	④ 48×48	
YCN-□K1-H		•				√	√	√	√	√	
YCN-□K1-P			•			√	√	√	√	√	
YCN-□K1-3H				•		√	√	√	√	√	
YCN-□K1-3P					•	√	√	√	√		
YCN-□K1-H+RS		•				√	√	√	√		+
YCN-□K1-P+RS			•			√	√	√	√		+
YCN-□K1-3H+RS				•		√	√	√	√		+
YCN-□K1-3P+RS					•	√	√	√	√		+



1. Technical parameters

Measuring range:

Three Phase Digital Ammeter: Direct measurement: AC 0~5A; Accessory device: AC 0~9999A (CT \*/ 5A).

Three Phase Digital Voltmeter: Direct measurement: AC 0~600V; Accessory device: AC 0~9999KV (PT \*/ 100V)

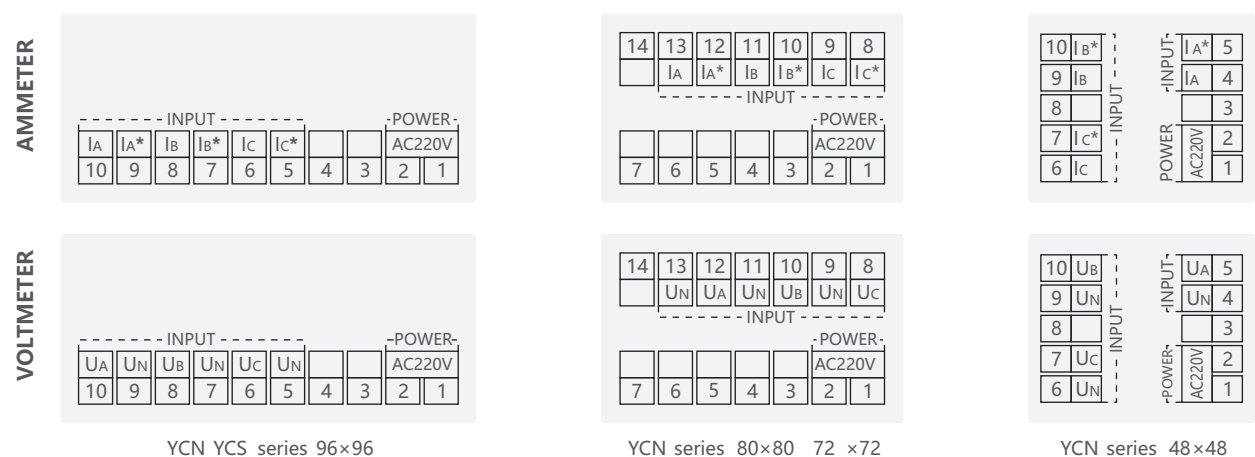
Accuracy rating: ±0.5 % FS±1 digit.

Measuring display mode: RMS measurement, four-digit LED nixietube display.

Auxiliary power supply: AC 220V,50/60Hz (Can customize other values: DC 24V, DC 48V, AC/DC 85~265V).

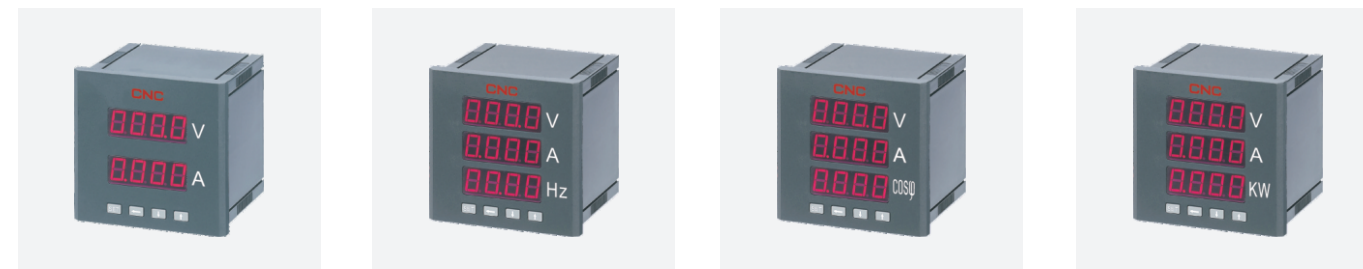
2. Terminal arrangement

Attention: If it is not the same with the wiring schema of diagram behind case, please accord to the one of diagram behind case.



3. Model and Specification

Model	Function & Shape	Measure & Display		shape code (Figuer Inside □)				Selected Additional Functions		
		Three Phase Current	Three Phase Voltage	⑨ 96×96	⑧ 80×80	⑦ 72×72	④ 48×48	Communication interface: RS485	2-channels switch output	1-channels analog output
YCS-□ K3-3I		•		√						
YCS-□ K3-3U			•	√						
YCN-□ K3-3I		•		√	√	√	√			
YCN-□ K3-3U			•	√	√	√	√			
YCN-□ K3-3I+RS		•		√	√	√		+		
YCN-□ K3-3U+RS			•	√	√	√		+		
YCN-□ K3-3I+2DO		•		√					+	
YCN-□ K3-3U+2DO			•	√					+	
YCN-□ K3-3I+1AO		•		√						+
YCN-□ K3-3U+1AO			•	√						+



1. Technical parameters

Measuring range:

Voltage: AC 0~500V Current: AC 0~9999A Frequency: 45~65Hz or Power Factor: 0.0C~0.5C~1.0~0.5L~0.0L or Active Power: 0~9999KW

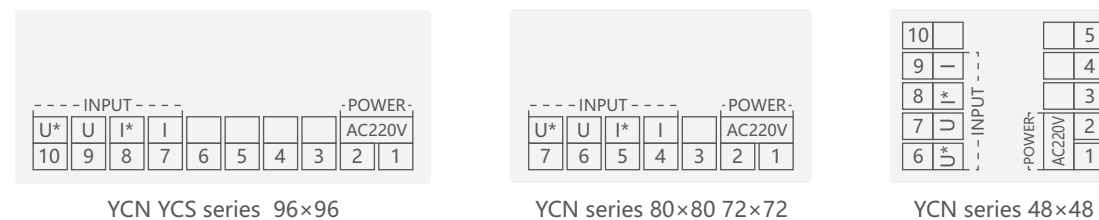
Accuracy rating: ±0.5 % FS±1 digit.

Measuring display mode: RMS measurement, four-digit LED nixietube display.

Auxiliary power supply: AC 220V,50/60Hz (Can customize other values: DC 24V, DC 48V, AC/DC 85~265V).

2. Terminal arrangement

Attention: If it is not the same with the wiring schema of diagram behind case, please accord to the one of diagram behind case.



3. Model and Specification

Model	Function & Shape	Measure & Display					shape code (Figuer Inside □)				Selected Additional Functions		
		Current	Voltage	Frequency	Power Factor	Active Power	⑨ 96×96	⑧ 80×80	⑦ 72×72	④ 48×48	Communication interface: RS485	2-channels switch output	1-channels analog output
YCS-□ K2-UI		•	•				√						
YCS-□ K3-UIF		•	•	•			√						
YCS-□ K3-UIH		•	•		•		√						
YCS-□ K3-UIP		•	•			•	√						
YCN-□ K2-UI		•	•				√						
YCN-□ K3-UIF		•	•	•			√	√	√	√			
YCN-□ K3-UIH		•	•		•		√	√	√	√			
YCN-□ K3-UIP		•	•			•	√	√	√	√			
YCN-□ K3-UIF+RS		•	•	•			√	√	√		+		
YCN-□ K3-UIH+RS		•	•		•		√	√	√		+		
YCN-□ K3-UIP+RS		•	•			•	√	√	√		+		
YCN-□ K3-UIF+2DO		•	•	•			√					+	
YCN-□ K3-UIH+2DO		•	•		•		√					+	
YCN-□ K3-UIP+2DO		•	•			•	√					+	
YCN-□ K3-UIF+1AO		•	•	•			√						+
YCN-□ K3-UIH+1AO		•	•		•		√						+
YCN-□ K3-UIP+1AO		•	•			•	√						+





1. Technical parameters

Measuring range:

- Phase voltage(UA UB UC) 0~500V •Line voltage(UAB UBC UCA) 0~500V •Current(IA IB IC) 0~9999A
- Frequency or Frequency&Power Factor or Active Power.

Signal input: Voltage: AC 0~500V(PT \*/ 100V),Current: AC 5A (CT \*/ 5A )

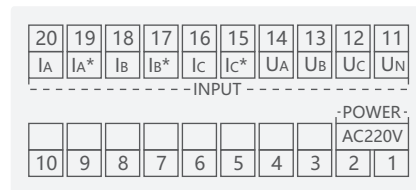
Accuracy rating: ±0.5 % FS±1 digit.

Measuring display mode: RMS measurement, four-digit LED nixietube display.

Auxiliary power supply: AC 220V,50/60Hz(Can customize other values:AC/DC 85~265V).

2. Terminal arrangement

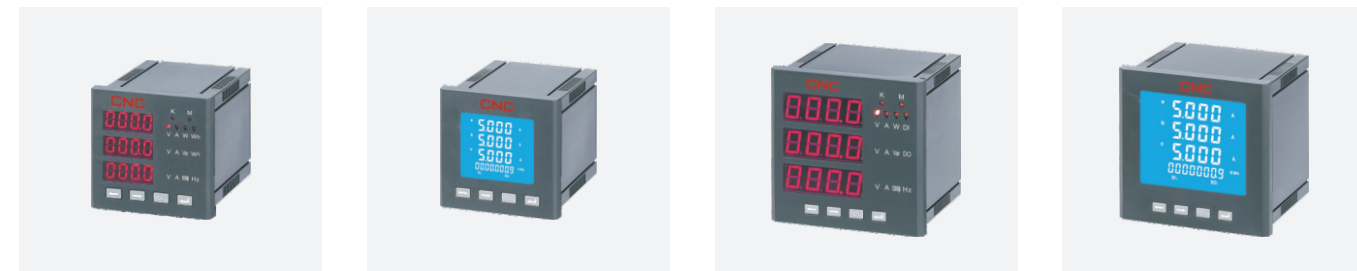
Attention:If it is not the same with the wiring schema of diagram behind case,please accord to the one of diagram behind case.



YCN YCS series 96x96

3. Model and Specification

Model	Function & Shape	Measure & Display					Shape code (Figuer Inside □ )	Selected Additional Functions	
		Phase Voltage	Line Voltage	Current	Frequency	Power Factor		Active Power	96x96
YCS-□ K5-3UIF	●	●	●	●	●	●	√		
YCS-□ K5-3UIHF	●	●	●	●	●	●	√		
YCS-□ K5-3UIP	●	●	●	●	●	●	√		
YCN-□ K5-3UIF	●	●	●	●	●	●	√		
YCN-□ K5-3UIHF	●	●	●	●	●	●	√		
YCN-□ K5-3UIP	●	●	●	●	●	●	√		
YCN-□ K6-3UI	●	●	●	●	●	●	√		
YCN-□ K5-3UIF+RS	●	●	●	●	●	●	√	+	
YCN-□ K5-3UIHF+RS	●	●	●	●	●	●	√	+	
YCN-□ K5-3UIP+RS	●	●	●	●	●	●	√	+	
YCN-□ K6-3UI+RS	●	●	●	●	●	●	√	+	
YCN-□ K5-3UIF+4DO	●	●	●	●	●	●	√		+
YCN-□ K5-3UIHF+4DO	●	●	●	●	●	●	√		+
YCN-□ K5-3UIP+4DO	●	●	●	●	●	●	√		+
YCN-□ K6-3UI+4DO	●	●	●	●	●	●	√		+



1. Technical parameters

Measuring range:

- Phase voltage(UA,UB,UC):0~500V •Line voltage(UAB,UBC,UCA): 0~500V
- Current(IA,IB,IC): 0~9999A •Frequency: 45~65Hz
- Power factor(PFA,PFB,PFC,PFS) : 0.0C~1.0~0.0L •Active power(PA,PB,PC,PS): 0~999W~999KW~9999MW
- Reactive power(QA,QB,QC,QS): 0~999Var~999KVar~9999MVar •Apparent power(SA,SB,SC,SS): 0~999VA~999KVA~9999MVA
- Active electric energy: 0~9999999KWh~9999999MWh •Reactive electric energy: 0~9999999KVarh~9999999MVarh

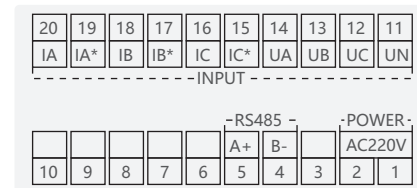
Signal input: AC 0~500V(PT \*/ 100V),AC 5A (CT \*/ 5A ) Accuracy rating : ±0.5 % FS±1 digit.

Communication interface : RS485 communication, MODBUS\_RTU protocol. Measuring display mode: RMS measurement

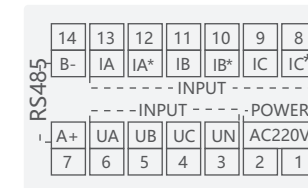
Auxiliary power supply: AC 220V,50/60Hz(Can customize other values:AC/DC 85~265V).

2. Terminal arrangement

Attention:If it is not the same with the wiring schema of diagram behind case,please accord to the one of diagram behind case.



YCN YCS series 96x96



YCN series 80x80 72x72

3. Model and Specification

Model	Function & Shape	Measure & Display													Shape Code (Figuer Inside □ )			Selected Additional Functions					
		Phase VoltageV	Line Voltage	Current	Frequency	Total Power Factor	Total Active Power	Total Reactive Power	Total Apparent Power	Each Phase Power Factor	Each Phase Active Power	Each Phase Reactive Power	Each Phase Apparent Power	Active Energy	Reactive Energy	96x96	80x80	72x72	Communication interface:RS485	4-channels switch output	4-channels switch input	4-channels analog output	Harmonic
YCS- □ S3-3E	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	√			+				
YCS- □ SY-3E	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	√			+				
YCN-□ S3-3E	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	√	√	√	+				
YCN-□ SY-3E	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	√	√	√	+				
YCN-□ S3-3E+4DO	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	√			+	+			
YCN-□ SY-3E+4DO	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	√			+	+			
YCN-□ S3-3E+4DI	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	√			+		+		
YCN-□ SY-3E+4DI	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	√			+		+		
YCN-□ S3-3E+4AO	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	√			+			+	
YCN-□ SY-3E+4AO	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	√			+			+	
YCN-□ SY-3E+H	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	√			+				+

## XMT□-9 Temperature Controller

### Brief introduction

9□□□ series(REX series) intelligent digital display temperature controller adopted the latest plane touch operation and microcomputer control technique. Based on the principle of simpleness, convenience, stability and reliability, this series instruments has great adaptability to the market, and it complies with the international standard and has various installation size. The series intelligent digital display temperature controller is a kind of economical instrument with high price-property ratio, which can substitute for the general digital display temperature controller. It has many functions such as control, alarm, transformation and transfer. Moreover, It has PID control function.

### Characteristic

1. Display PV value and SV value by nd green the high bright red a double-row digital tube.
2. Appointed input by sensing signal.
3. Automatic amend by sensing unit.
4. Function of second class data lock protection.
5. Precise measurement:
  - 1)±1%FS±one digit
  - 2)±0.5%FS±one digit
6. Alarm range: free set the complete range
7. Operating power supply:
  - 1)switch power: 85-264 VAC 50/60Hz
  - 2)Transformer power supply: AC220V±10%,50/60Hz

### Code and Implication

XMT□-9□□□□	
Dimension(width* high)	
A.96×96 (92×92)	
D.72×72 (68×68)	
E.48×96 (45×92)	
F.96×48(92×45)	
G.48×48(45×45)	
T.160×80(152×76)	
Hole size in the parentheses	
Input signal	1-The rmocouple(mv): K.E.J.S.ETS 2-Thermal resistance(Ω): Cu50, Pt100 ETC 3-Hall transmitter, CP differential manometer or Voltage 4-Remote sending manometer 5-Standard current: 0~10mA 4~20mA
Alarming function	0-No alarming function 1-Upper limit alarming function 2-Lower limit alarming function 3-Upper and Lower limit alarming function
Adjust ways	0-Two states adjustment 2-Thress states adjustment 4-Breaking/connect contact point PID adjustment Driving solid relay PID function 8-Output three phase zero passage contact signal PID adjustment 7-Output sigle phase zero passage contact signal PID adjustment 9-Output 0~10mA ETC current PID adjustment



XMTA



XMTD



XMTE



XMTG

## XMT□-7 Temperature Controller

### Brief introduction

7□□□ series(REX series) intelligent digital display temperature controller adopted the latest plane touch operation and microcomputer control technique. Based on the principle of simpleness, convenience, stability and reliability, this series instruments has great adaptability to the market, and it complies with the international standard and has various installation size. The series intelligent digital display temperature controller is a kind of economical instrument with high price-property ratio, which can substitute for the general digital display temperature controller. It has many functions such as control, alarm, transformation and transfer. Moreover, It has PID control function.

### Characteristic

1. Display PV value and SV value by nd green the high bright red a double-row digital tube.
2. Appointed input by sensing signal.
3. Automatic amend by sensing unit.
4. Function of second class data lock protection.
5. Precise measurement:
  - 1)±1%FS±one digit
  - 2)±0.5%FS±one digit
6. Alarm range: free set the complete range
7. Operating power supply:
  - 1)switch power: 85-264 VAC 50/60Hz
  - 2)Transformer power supply: AC220V±10%,50/60Hz

### Code and Implication

XMT□-7□□□□	
Dimension(width* high)	
A.96×96 (92×92)	
D.72×72 (68×68)	
E.48×96 (45×92)	
F.96×48(92×45)	
G.48×48(45×45)	
T.160×80(152×76)	
Hole size in the parentheses	
Input signal	1-The rmocouple(mv): K.E.J.S.ETS 2-Thermal resistance(Ω): Cu50, Pt100 ETC
Alarming function	0-No alarming function 1-Upper limit alarming function 2-Lower limit alarming function 3-Upper and Lower limit alarming function
Adjust ways	0-Two states adjustment 2-Thress states adjustment 4-Breaking/connect contact point PID adjustment 5-Driving solid relay PID function



XMTA



XMTD




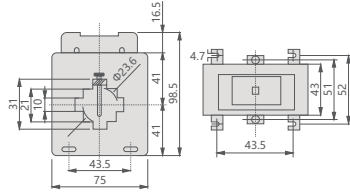
XMTE




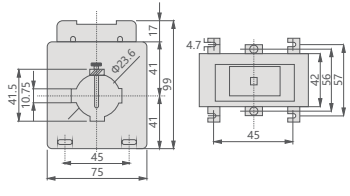
XMTG

## MSQ Current Transformer


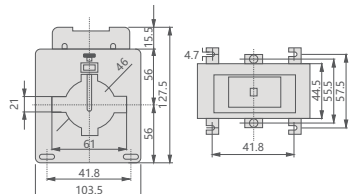
### General technical data and dimensions

	Current ratio (A)	Capacity (VA)		Mandrel turns	Overall and mounting dimensions (mm)
		class 0.5	class 1.0		
	30/5		1	1	
	40/5		1	1	
	50/5		1	1	
	60/5	1	1	1	
	75/5	1.5	1.5	1	
	80/5	2.5	2.5	1	
	100/5	2.5	5	1	
	150/5	5	5-10	1	
	200/5	5	5-10	1	
	250/5	5	5-10	1	
300/5	5	5-10	1		


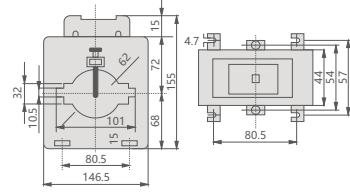
MSQ-30

	100/5	2.5	2.5	1	
	150/5	3	3	1	
	200/5	5	5	1	
	250/5	5	5	1	
	300/5	5	5	1	
	400/5	5	5	1	
	500/5	5	5	1	

MSQ-40

	250/5	5	5	1	
	300/5	5	5	1	
	400/5	5	5	1	
	500/5	5	5	1	
	600/5	10	10	1	
	750/5	10	10	1	
	800/5	10	10	1	
1000/5	15	15	1		

MSQ-60

	1500/5	15	15	1	
	1600/5	15	15	1	
	2000/5	15	15	1	
	2250/5	15	15	1	
	2500/5	15	15	1	
	2500/5	15	15	1	
	3000/5	15	15	1	

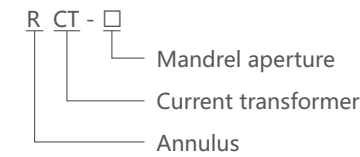
MSQ-100

## RCT Current Transformer

### Applicable scope

RCT type is indoor type current transformer. It is suitable for using in the circuit that rated voltage up to 0.5kv, frequency 50 Hz to do the current, power measuring or relay production. This molded case current transformer has small size and light weight, panel fixing.


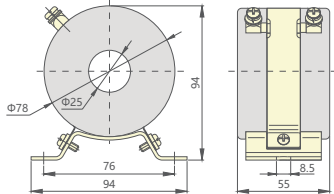
### Code and Implication



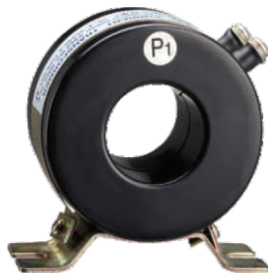
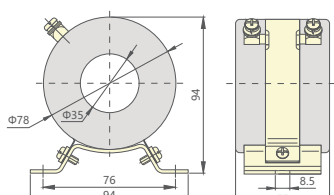
### Working and installation environment

1. Working place: Indoor
2. Ambient temperature: -5°C~40°C
3. Humidity: < 80%
4. Altitude: < 1000m
5. Atmospheric conditions: no serious pollution

### General technical data and dimensions

	Current ratio (A)	Capacity (VA)		Mandrel turns	Overall and mounting dimensions (mm)
		class 0.5	class 1.0		
	75/5	2.5	2.5	1	
	100/5	2.5	2.5	1	

RCT-25

	75/5	2.5	2.5	1	
	100/5	2.5	2.5	1	
	150/5	5	5	1	
	200/5	5	5	1	
	250/5	5	5	1	
	250/5	5	5	1	
	300/5	5	5	1	

RCT-35

RCT Current Transformer



RCT-60

Current ratio (A)	Capacity (VA)		Mandrel turns	Overall and mounting dimensions (mm)
	class 0.5	class 1.0		
400/5	5	5	1	
500/5	10	10	1	
600/5	10	10	1	
750/5	10	10	1	
800/5	10	10	1	
1000/5	10	10	1	
1200/5	10	10	1	



RCT-90

800/5	10	10	1	
1000/5	10	10	1	
1200/5	10	10	1	
1500/5	10	10	1	
1600/5	10	10	1	



RCT-110

1500/5	10	10	1	
1600/5	10	10	1	
2000/5	20	20	1	
2500/5	20	20	1	
3000/5	20	20	1	

Notice for ordering

Following information should be specified when ordering:

1. Type and window width
2. Current ratio
3. Accuracy
4. Also could be customized according to customer's requirement.

YCP Current Transformer

General technical data and dimensions



YCP-45/14

Current ratio (A)	Capacity (VA)				Mandrel turns	Overall and mounting dimensions (mm)
	class 3.0	class 1.0	class 0.5	class 0.2		
30/5	1				1	
40/5	1				1	
50/5		1.5			1	
60/5		2.5			1	
75/5		2.5			1	
80/5		2.5			1	
100/5		2.5			1	



YCP-62/WS

5/5		5	5		1	
10/5		5	5		1	
30/5		5	5		1	
40/5		5	5		1	
50/5		5	5		1	
60/5		5	5		1	
75/5		5	5		1	
80/5		5	5		1	



YCP-62/20

30/5	1				1	
40/5	1				1	
50/5		2.5			1	
60/5		2.5			1	
75/5		2.5			1	
80/5		2.5			1	
100/5		2.5			1	
150/5		5			1	


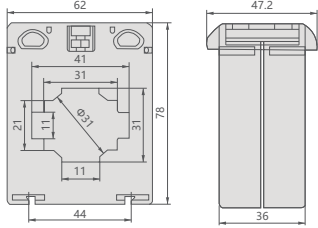


YCP-62/30


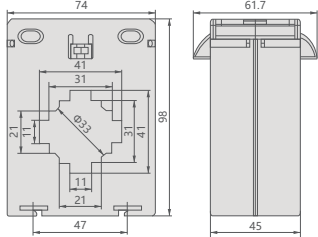
40/5	1				1	
50/5	2.5	1.5			1	
60/5	2.5	1.5			1	
75/5		2.5			1	
80/5		2.5			1	
100/5			2.5		1	
150/5			2.5		1	
200/5			5		1	
250/5			5		1	
300/5			5		1	




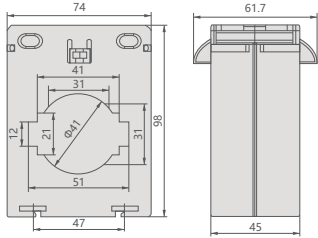
YCP Current Transformer

Image	Current ratio (A)	Capacity (VA)				Mandrel turns	Overall and mounting dimensions (mm)	
		class 3.0	class 1.0	class 0.5	class 0.2			
	150/5		2.5			1		
	200/5		5			1		
	250/5			5		1		
	300/5			5		1		
	400/5			5		1		
	500/5			5		1		
600/5			7.5		1			


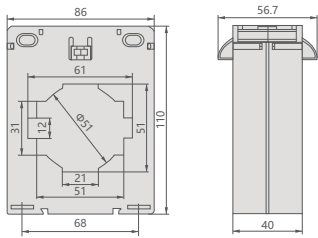
YCP-62/40

	200/5			5		1	
	250/5			5		1	
	300/5			5		1	
	400/5			5		1	
	500/5			10		1	
	600/5			10		1	
	800/5			10	5	1	

YCP-74/40

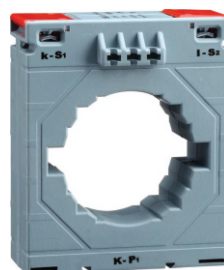
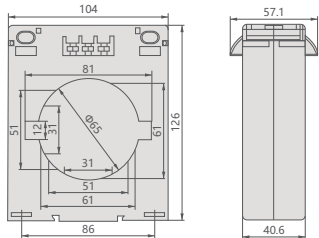
	300/5			5		1	
	400/5			5		1	
	500/5			5		1	
	600/5			15		1	
	800/5			15	5	1	
	1000/5			15	5	1	

YCP-74/50

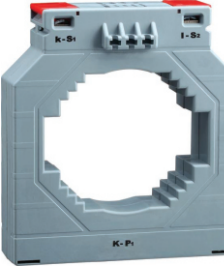
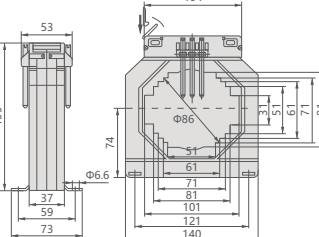
	500/5			5		1	
	600/5			5		1	
	800/5			10	5	1	
	1000/5			15	5	1	
	1200/5			15	5	1	
1500/5			15	5	1		

YCP-86/60

YCP Current Transformer

Image	Current ratio (A)	Capacity (VA)				Mandrel turns	Overall and mounting dimensions (mm)	
		class 3.0	class 1.0	class 0.5	class 0.2			
	800/5			15	5	1		
	1000/5			15	5	1		
	1200/5			30	5	1		
	1500/5			30	10	1		
	1600/5			30	10	1		
	2000/5			30	10	1		

YCP-104/80

	800/5			15	5	1	
	1000/5			15	5	1	
	1200/5			15	5	1	
	1500/5			20	5	1	
	1600/5			20	10	1	
	2000/5			30	15	1	
	2500/5			30	15	1	
	3000/5			*30	*15	1	

YCP-140/100

\* Long term use of 100% rated primary current, order has to be specified

## BSMJ Low Voltage Shunt Power Capacitor of The Self-healing Type

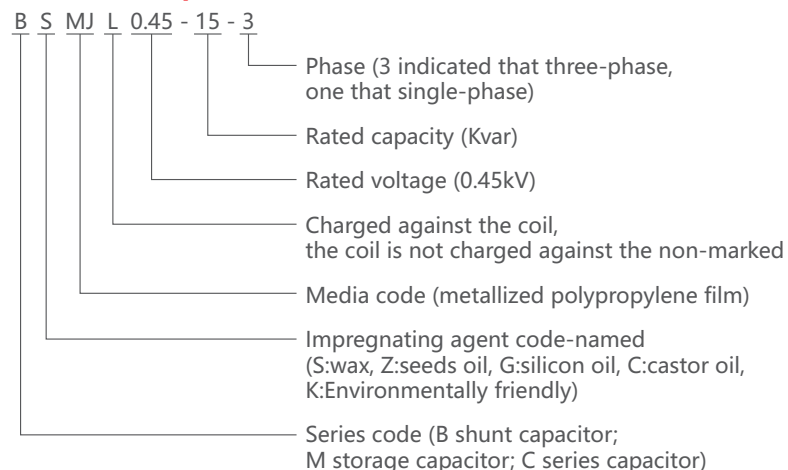


### Application

Self-healing low voltage shunt power capacitor was used in 50Hz and 60Hz power system, it mainly improves power factor, reduce reactive power loss, improve voltage quality, encavate transformer quantity and so on. It is best saving power products which company highly recommend and work.

This product meets the standards: GB/T 12747-2004, IEC60831-1996

### Code and Implication



### Working Conditions

- Power capacitor should confirm left voltage reduce to rated voltage 10% to input again after the power was cut off, normally it will need 200s almost. so it would choose the power controller which has input and reput lock time function after cut off the power. If choose normally power controller, it must install speediness discharge power equipment. it would not limited which use adopting same electric factor input and chip switch.
- Altitude level is not more than 2000m.
- Temperature type: -25/C low temperature, highest temperature is C type (it would not more than 50°C the average of temperature is not more than 40°C within 24 hours, one year average of temperature is not more than 30°C), power capacitor will work within good ventilate condition. It would not permit within sealing and installation condition

### Structure Features

- Volume is small, weight is light easy installation  
Metalized PPA thin film was adopt for medium, it only have 1/4 old products' volume and 1/5 old products' weight
- Low loss little heating small change the temperature  
New type spray golden craftsmanship and special metalized edge thickness technology was adopted, it can strength the power capacitor anti surge capacity property stability, working life will prolong, power capacitor itself power lost will reduce practice value is low than 0.08%, little heating small change the temperature and good saving power effect
- Excellence self healing property  
When medium parts was puncture, it can self heal quickly and recover normally work, improving the reliability

## BSMJ Low Voltage Shunt Power Capacitor of The Self-healing Type

### 4. Safety

There are discharge resister and insure equipment was inside capacitor, it is reliability to use

### 5. No leakage oil, Green no pollution

Wax was immersed liquid, normally it is state, when the temperature is high 70°C, it will unfreeze, there is no leakage oil and no pollution when you use this products. not only have try type's instruction characteristic but also have immersed capacitor advantage. moreover it can make power capacitor work reliability within special immerse craftsmanship

### 6. Anti corrupt and preventing fake cover, beautiful and substance

Pressing metal cover we use special double anti corrupt craftsmanship, so it improve the products anti corruption, special anti fake design, exquisite artistic.

### Main Technical Data

- Rated voltage: 230V, 250V, 400V, 450V, 525V, 690V, 750V, 1050V, 1200V, other special voltage please notice it.  
Rated capacity: 0.4~0.69kV 1~60kvar, other voltage class's capacity, please notice it.  
Rated frequency: 50Hz or 60Hz.  
Capacity tolerance: -5%~+10%.  
Loss angle  $\tan \delta$  0.1% when the temperature is 20°C.  
Anti voltage: between two pole 2.15 time rated voltage is 10s, between two pole  $2U_n+2kV$  or 3kV please choose highest value
- 10s, there is no perpetuity puncture and flash over.
- Max permit over voltage: 1.1 time rated voltage, the high permit over voltage is not more than 8 hours within 24 hours. 1.15 time rated voltage, it is not more than 30 minute within 24 hours, 1.2 time rated voltage it is not more than 5 minute, 1.3 times rated voltage, it would not more than 1 minute  
Max permit over current: it is permit that the over current is not more than 1.3 time rated current, interim over current it should consider over voltage, capacity positive tolerance and harmonic effect. interim over current is not more than 1.43 times rated current.  
Connection:  $\Delta Y$  type, Y type should draw out through neuter, III three section, single phase type, and all kind of connection way. other connection way it will notice when you order it  
Discharge property: the-left voltage will reduce from  $\sqrt{2} U_n$  to below 50V within 3 minutes when the power cut off.  
Standard: GB/T12747-2004, IEC60831: 212002.

### Main Technical Date & Out Line Dimensions Data(Three-phase)

Model BSMJ, BCMJ, BZMJ	Rated volt (kV)	Rated capacity (Kvar)	Rated capacity ( $\mu F$ )	Rated current (A)	H (mm)	Outgoing terminal	Drawing No.
0.4-1-3	0.4	1	19.9	1.4	105	M6	1
0.4-2-3	0.4	2	39.8	2.9	105	M6	1
0.4-3-3	0.4	3	59.7	4.3	125	M6	1
0.4-4-3	0.4	4	79.6	5.8	125	M6	1
0.4-5-3	0.4	5	99.5	7.2	125	M6	1
0.4-6-3	0.4	6	119.4	8.7	125	M6	1
0.4-7.5-3	0.4	7.5	149.2	10.8	125	M6	1
0.4-8-3	0.4	8	159.2	11.6	125	M6	1
0.4-10-3	0.4	10	198.9	14.4	125	M6	1
0.4-12-3	0.4	12	238.7	17.3	180	M6	1
0.4-14-3	0.4	14	278.5	20.2	210	M6	1
0.4-15-3	0.4	15	298.4	21.7	210	M6	1
0.4-16-3	0.4	16	318.3	23.1	210	M6	1
0.4-18-3	0.4	18	358.1	26.0	245	M6	1
0.4-20-3	0.4	20	397.9	28.9	245	M6	1
0.4-22-3	0.4	22	437.7	31.8	210	M8	2

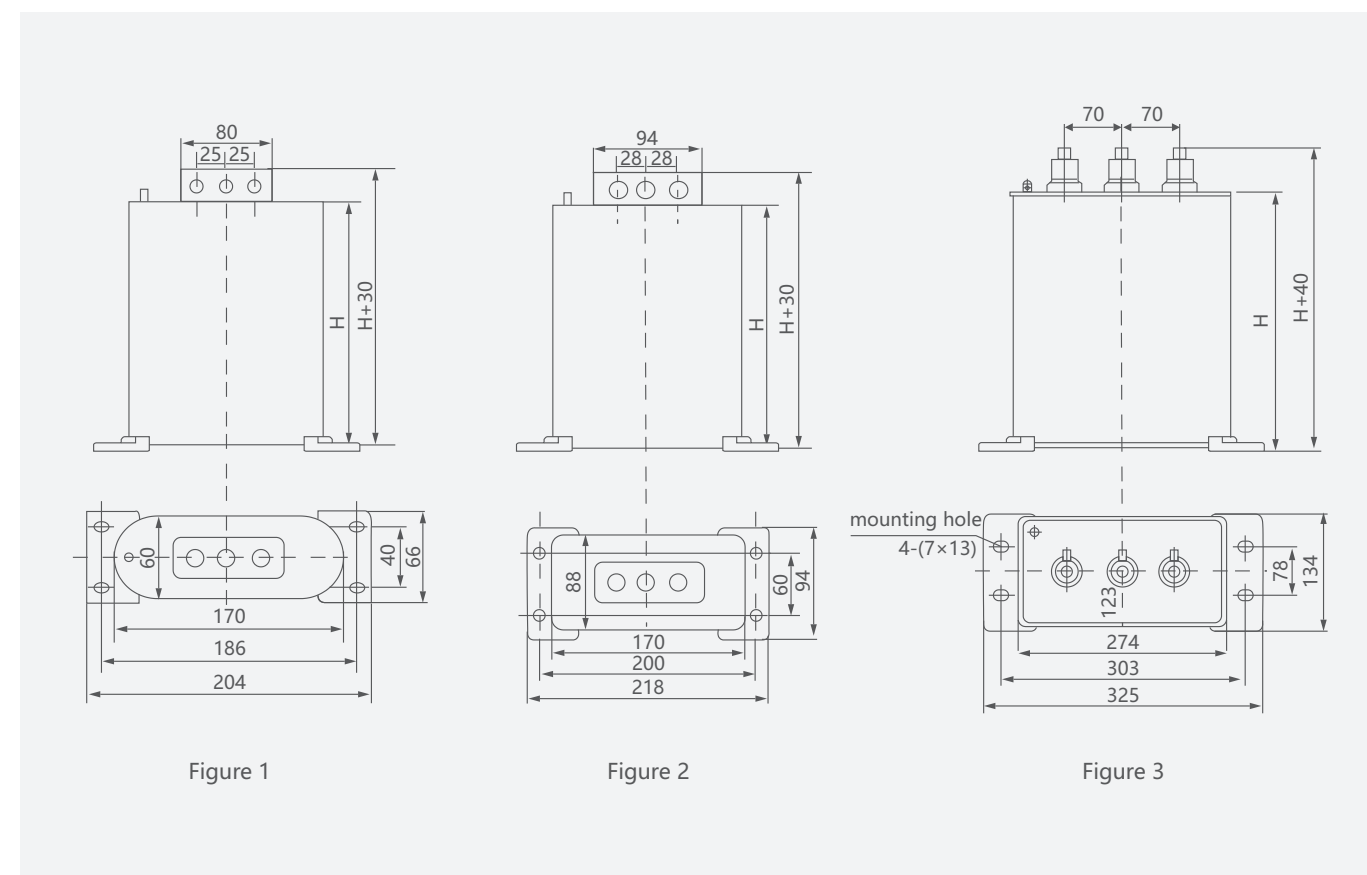
**BSMJ** Low Voltage Shunt Power Capacitor of The Self-healing Type

Model BSMJ, BCMJ, BZMJ	Rated voltage (kV)	Rated capacity (Kvar)	Rated capacity ( $\mu$ F)	Rated current (A)	H (mm)	Outgoing terminal	Drawing No.
0.4-24-3	0.4	24	477.4	34.6	210	M8	2
0.4-25-3	0.4	25	497.4	36.1	210	M8	2
0.4-28-3	0.4	28	557.3	40.4	260	M8	2
0.4-30-3	0.4	30	596.8	43.3	260	M8	2
0.4-35-3	0.4	35	696.3	50.5	260	M8	2
0.4-40-3	0.4	40	796.2	57.7	330	M8	2
0.4-45-3	0.4	45	895.2	65.0	230	M10	3
0.4-50-3	0.4	50	995.2	72.2	230	M10	3
0.4-55-3	0.4	55	1094.2	79.4	230	M10	3
0.4-60-3	0.45	60	1194.3	86.6	230	M10	3
0.45-1-3	0.45	1	15.7	1.3	105	M6	1
0.45-2-3	0.45	2	31.4	2.6	105	M6	1
0.45-3-3	0.45	3	47.2	3.8	125	M6	1
0.45-4-3	0.45	4	62.9	5.1	125	M6	1
0.45-5-3	0.45	5	78.6	6.4	125	M6	1
0.45-6-3	0.45	6	94.3	7.7	125	M6	1
0.45-7.5-3	0.45	7.5	117.9	9.6	125	M6	1
0.45-8-3	0.45	8	125.8	10.3	125	M6	1
0.45-10-3	0.45	10	157.2	12.8	125	M6	1
0.45-12-3	0.45	12	188.6	15.4	180	M6	1
0.45-14-3	0.45	14	220.1	18.0	210	M6	1
0.45-15-3	0.45	15	235.8	19.2	210	M6	1
0.45-16-3	0.45	16	252.5	20.5	210	M6	1
0.45-18-3	0.45	18	282.9	23.1	210	M6	1
0.45-20-3	0.45	20	314.4	25.7	210	M6	1
0.45-22-3	0.45	22	345.8	28.3	210	M8	2
0.45-24-3	0.45	24	377.3	30.8	210	M8	2
0.45-25-3	0.45	25	393.2	32.1	210	M8	2
0.45-28-3	0.45	28	440.3	35.9	210	M8	2
0.45-30-3	0.45	30	471.8	38.5	210	M8	2
0.45-35-3	0.45	35	550.2	44.9	260	M8	2
0.45-40-3	0.45	40	629.1	51.3	260	M8	2
0.45-45-3	0.45	45	707.7	57.7	230	M10	3
0.45-50-3	0.45	50	786.3	64.2	330	M8	2
0.45-55-3	0.45	55	864.5	70.6	230	M10	3
0.45-60-3	0.525	60	943.6	77.5	230	M10	3
0.525-5-3	0.525	5	57.7	5.5	125	M6	1
0.525-10-3	0.525	10	115.5	11.0	180	M6	1
0.525-15-3	0.525	15	173.2	16.5	210	M6	1
0.525-16-3	0.525	16	184.8	17.6	210	M6	1
0.525-18-3	0.525	18	207.9	19.8	210	M6	2
0.525-20-3	0.525	20	231.0	22.0	210	M6	2
0.525-25-3	0.525	25	288.9	27.5	210	M8	2

**BSMJ** Low Voltage Shunt Power Capacitor of The Self-healing Type

Model BSMJ, BCMJ, BZMJ	Rated voltage (kV)	Rated capacity (Kvar)	Rated capacity ( $\mu$ F)	Rated current (A)	H (mm)	Outgoing terminal	Drawing No.
0.525-30-3	0.525	30	346.6	33.0	260	M8	2
0.525-40-3	0.525	40	462.2	44.0	330	M8	2
0.525-50-3	0.525	50	577.7	55.0	230	M10	3
0.525-60-3	0.525	60	693.3	66.0	230	M10	3
0.69-5-3	0.69	5	33.4	4.2	125	M6	1
0.69-10-3	0.69	10	66.9	8.4	180	M6	1
0.69-15-3	0.69	15	100.3	12.6	210	M6	1
0.69-16-3	0.69	16	107.0	13.4	210	M6	1
0.69-20-3	0.69	20	133.8	16.7	210	M6	2
0.69-25-3	0.69	25	167.2	20.9	210	M6	2
0.69-30-3	0.69	30	200.7	25.1	260	M8	2
0.69-40-3	0.69	40	267.4	33.5	330	M8	2
0.69-50-3	0.69	50	334.3	41.9	230	M10	3
0.69-60-3	0.69	60	401.4	50.2	230	M10	3

Note: Other special specification models supply according to user requirements.



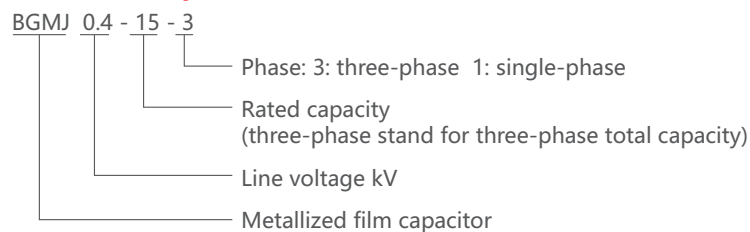
## BGMJ Low Voltage Shunt Capacitor of The Self-healing Type



### Application

BGMJ cylinder self-healing shunt power capacitor was used in 50Hz or 60Hz low voltage system equipment, it has power factor adjust, it was suitable in normally field compensator and centralize auto compensate, it can reduce reactive power loss, improve voltage quality, it is nationally recommended to save electric products. This product meets the standards: GB/T 12747, IEC831-1/2.

### Code and Implication



### Working Conditions

- Power capacitor should confirm left voltage reduce to rated voltage 10% to input again after the power was cut off, normally it will need 200s almost. so it would choose the power controller which has input and repute lock time function after cut off the power. If choose normally power controller, it must install speediness discharge power equipment. it would not limited which use adopting same electric factor input and chip switch.
- Altitude level is not more than 2000m.
- Temperature type: -25/C low temperature, highest temperature is C type (it would not more than 50°C the average of temperature is not more than 40°C within 24 hours, one year average of temperature is not more than 30°C), power capacitor will work within good ventilate condition. It would not permit within sealing and installation condition

### Structure Features

- Taking cylinder aluminum case.
- Immerse liquid: no social effects of pollution dielectric oil.
- Inseting press detaching equipment and discharge electric resister.
- Capacitor core is healing good quality metallized film.
- Capacitor top is anti touching electric terminal block.
- Bottom is M12 or M16 install ground bolt.
- Three phase capacitor is inside Δ connection way.



## BGMJ Low Voltage Shunt Capacitor of The Self-healing Type

### Main Technical Data

- Rated voltage: 0.23kV, 0.25kV, 0.4kV, 0.415kV, 0.45kV, 0.48kV, 0.525kV and so on.
- Rated capacity: 1~30kvar
- Capacitance tolerance: -5%~+10%
- Power loss  $\tan \delta \leq 0.1\%$
- Between pole voltage: 2. 15times rated voltage is 5 second, no permanence puncture or shine
- Dielectric level: between cover add the voltage: 2 times rated voltage plus 2kV or 3kV, please take height continue 10 second, no puncture and shine
- Max permit voltage: 1.1 times voltage, every 24 hours is not more than 8 hours, 1.15 times voltage, every 24 hours is not more than 30 minutes 1.2 times voltage, it would not more than 5 second (continue) 1.3 times voltage, not more than 1 minutes.
- High permit voltage: it is permit to work within less than 1.3 times rated current, as there are over voltage and capacitor positive deviation and harmonic the over current is not than 1.43 times rated current
- Discharge component: inside put discharge register, capacitor cut off power, than discharge 3 minutes electric, so the voltage reduce to 50V
- Standard: GB/T12747-2004, IEC60831-2002

### Three-phase Capacitors Specifications

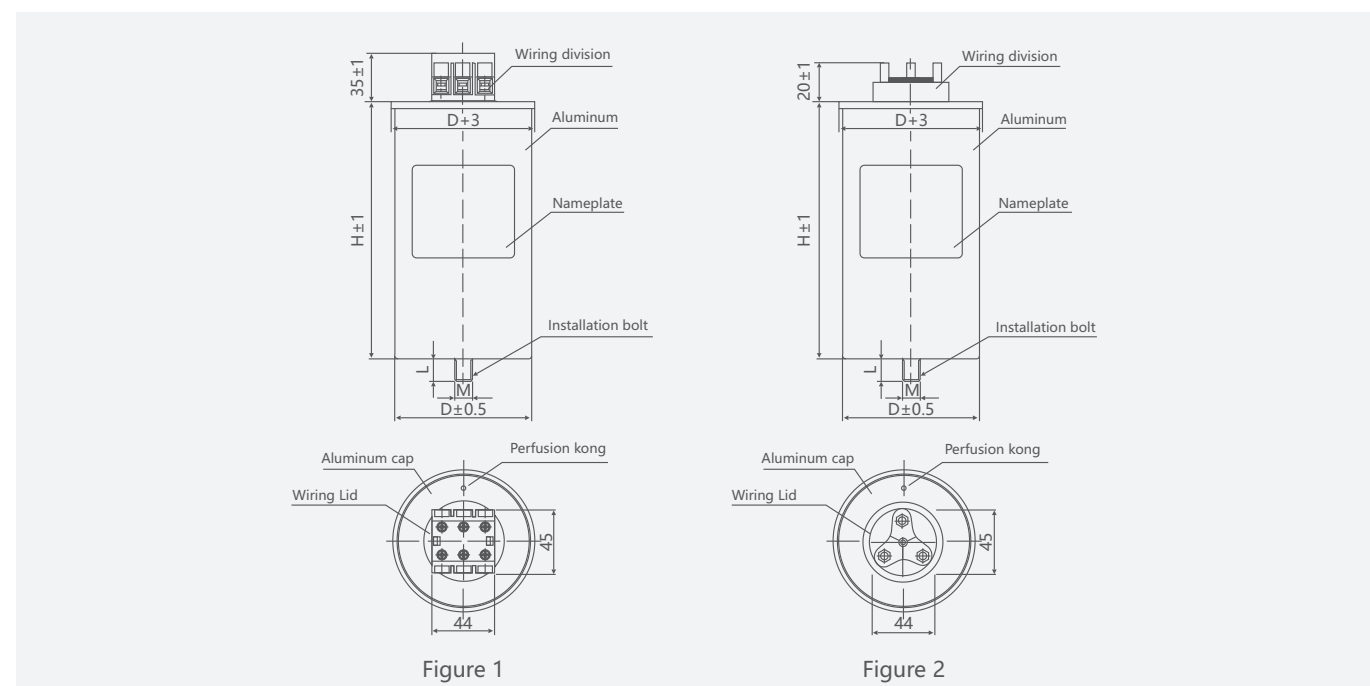
Model BSMJ	Rated volt (V)	Rated capacity (Kvar)	Rated capacity (μF)	Rated current (A)	Rated frequencies Hz	Dimension (mm)	Connection	Bottom bolt	Drawing No.
0.25-2.5-3	250	2.5	127.4	5.8	50	76×180		M12×16	1
0.25-3-3	250	3	152.8	6.9	50	76×180		M12×16	1
0.25-4-3	250	4	203.8	9.2	50	76×240		M12×16	1
0.25-5-3	250	5	254.7	11.7	50	96×240		M16×25	2
0.25-6-3	250	6	305.7	13.9	50	96×240		M16×25	2
0.25-7.5-3	250	7.5	382.1	17.3	50	96×240		M16×25	2
0.25-8-3	250	8	407.6	18.5	50	96×240		M16×25	2
0.25-10-3	250	10	509.4	23.1	50	106×290		M16×25	2
0.25-12.5-3	250	12.5	636.8	28.9	50	106×290		M16×25	2
0.28-2.5-3	280	2.5	101.5	5.2	50	76×180		M12×16	1
0.28-3-3	280	3	121.8	6.2	50	76×180		M12×16	1
0.28-4-3	280	4	162.4	8.2	50	76×240		M12×16	1
0.28-5-3	280	5	203	10.3	50	76×240		M16×25	2
0.28-6-3	280	6	243.7	12.4	50	76×240		M16×25	2
0.28-7.5-3	280	7.5	304.6	15.5	50	96×240		M16×25	2
0.28-8-3	280	8	325	16.5	50	96×240		M16×25	2
0.28-10-3	280	10	406.1	20.6	50	96×240		M16×25	2
0.28-12.5-3	280	12.5	507.6	25.8	50	106×240		M16×25	2
0.45-2.5-3	450	2.5	39.3	3.2	50	76×180	Δ	M12×16	1
0.45-3-3	450	3	47.1	3.9	50	76×180	Δ	M12×16	1
0.45-4-3	450	4	62.8	5.1	50	76×180	Δ	M12×16	1
0.45-5-3	450	5	78.5	6.4	50	76×180	Δ	M12×16	1
0.45-6-3	450	6	94.2	7.7	50	76×180	Δ	M12×16	1
0.45-7.5-3	450	7.5	117.8	9.6	50	76×180	Δ	M12×16	1
0.45-8-3	450	8	125.6	10.2	50	76×240	Δ	M12×16	1
0.45-10-3	450	10	157	12.8	50	76×240	Δ	M12×16	1
0.45-12.5-3	450	12.5	196.3	16	50	76×240	Δ	M12×16	1
0.45-15-3	450	15	235.5	19.2	50	96×240	Δ	M16×25	2



**BGMJ** Low Voltage Shunt Capacitor of The Self-healing Type

Model BSMJ	Rated volt (V)	Rated capacity (Kvar)	Rated capacity (μF)	Rated current (A)	Rated frequencies Hz	Dimension (mm)	Connection	Bottom bolt	Drawing No.
0.45-16-3	450	16	251.2	20.5	50	96×240	Δ	M16×25	2
0.45-20-3	450	20	314	25.6	50	96×240	Δ	M16×25	2
0.45-25-3	450	25	392.5	32	50	106×240	Δ	M16×25	2
0.45-30-3	450	30	471	38.5	50	106×290	Δ	M16×25	2
0.48-2.5-3	480	2.5	34.5	3.0	50	76×180	Δ	M12×16	1
0.48-3-3	480	3	41.4	3.6	50	76×180	Δ	M12×16	1
0.48-4-3	480	4	55.2	4.8	50	76×180	Δ	M12×16	1
0.48-5-3	480	5	69	6.0	50	76×180	Δ	M12×16	1
0.48-6-3	480	6	82.8	7.2	50	76×180	Δ	M12×16	1
0.48-7.5-3	480	7.5	103.5	9.0	50	76×240	Δ	M12×16	1
0.48-8-3	480	8	110.4	9.6	50	76×240	Δ	M12×16	1
0.48-10-3	480	10	138	12	50	76×240	Δ	M12×16	1
0.48-12.5-3	480	12.5	172.5	15	50	96×240	Δ	M16×25	2
0.48-15-3	480	15	207	18	50	96×240	Δ	M16×25	2
0.48-16-3	480	16	220.8	19.2	50	96×240	Δ	M16×25	2
0.48-20-3	480	20	276	24.1	50	106×240	Δ	M16×25	2
0.48-25-3	480	25	345	30.1	50	106×290	Δ	M16×25	2
0.525-5-3	525	5	57.8	5.5	50	76×180	Δ	M12×16	1
0.525-7.5-3	525	7.5	86.6	8.3	50	76×180	Δ	M12×16	1
0.525-10-3	525	10	115.5	11	50	76×180	Δ	M12×16	1
0.525-12.5-3	525	12.5	144	13.8	50	76×240	Δ	M12×16	1
0.525-15-3	525	15	173.3	16.5	50	96×240	Δ	M16×25	2
0.525-20-3	525	20	231	22	50	106×240	Δ	M16×25	2
0.525-25-3	525	25	288.8	27.5	50	106×290	Δ	M16×25	2

Installation and Dimension Chart



**JKW5C** Reactive Power Auto-compensation Controller



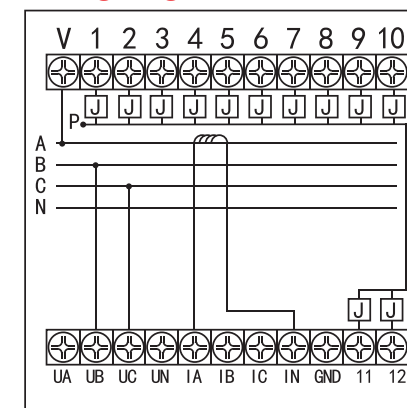
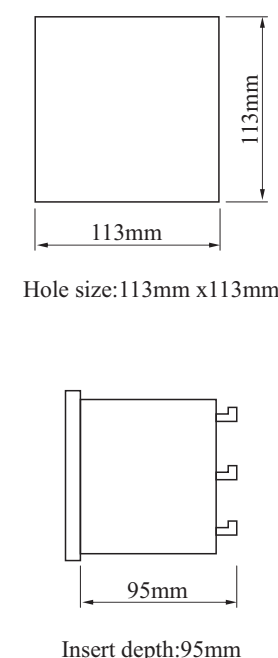
General

JKW5C series intelligert reactive power automatic compensation controller is especially used to control reactive powercom pensation in low-voltage distribution system, can be matched with various type of low-voltage static capacitance screen. each has five specifications of 4, 6, 8, 10 and 12 output ways, This maching adopts the advanced technology from home and abroad, possesses advantages of small volume, light weight, complete functions, strong anti-jamming, stable and reliable operation, accurate compensation, etc. Designed according to JB/T9663-1999 the latest nation a professional standard; approved by the national quality-monitoring center of power control distribution equipments, and passed the type test. Full digital design, AC sampling; Adhering to the people-oriented design concept, modular assembly and appearance streamline design; Real-time display of power factor, voltage, current, reactive power and capacitor switching state; English prompt and digital input for setting parameters; Capacitor control scheme supports power factor cyclic switching compensation or precise compensation of reactive power. The compensation scheme can be set through menu operation; It has two working modes: manual compensation and automatic compensation; Sampling physical quantity is power factor or reactive power.

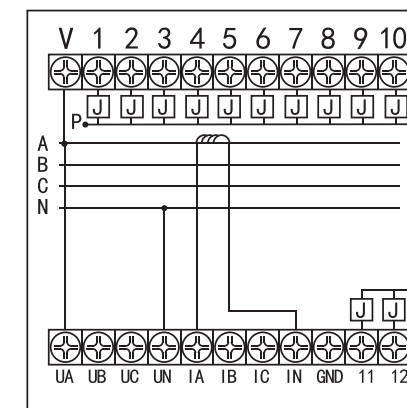
Characteristic

Altitude: ≤2500m      Ambient temperature: -20°C~ +60°C  
 Storage temperature:-40°C ~+70°C,Environmental condition: without explosive and flammable dangerous medium, without corrosive metal gas and the conductive dust that may damage the electric insulation.The installation site has no violent vibration and no rain or snow erosion.  
 Measuring data: Measuring voltage: 100V ~ 500V  
                          Measuring current: 0~6000A(primary current)  
                          Sensitivity: 50mA(Secondary current)  
                          Measuring power factor: lag o.2 ~ lead 0.2  
 Rated voltage: 380V±20%  
 Measuring frequency: 47Hz ~ 53Hz  
 Active power: 0~6553Kw      reactive power: 0~6553Kvar  
 Display performance:  
 LED digital display, data display refresh period≤1s

Wiring diagram



JKW5C-380V voltage sampling wiring diagram



JKW5C-220V voltage sampling wiring diagram