



Class 1

Manufacturing company HUABANG

DDM100TC

3x230V 63(100)A

THREE PHASE DIN-RAIL KWH METER

# USER MANUAL

TG ELECTRONICS

OEM:101716

## 1. General

DDM100TC 3 phase 3 wire din rail KWH meter which is adopt micro electronic technique and imported special large scale integrate circuit, use advanced technique of digital sampling technique and SMT technical. The meter are completely conformed to international standard IEC62053-21 (class 1.0)

The meter is used for measuring active energy power consumption in a rated frequency of 50HZ three phase alternating current circuit .The meter adopt digital LCD display. It has following features: good reliability, small voltage, Convenient installation. Widely used and coordination of sets of equipment is convenient.

The meter is installed indoor it shall be assumed as follows: the ambient temperature is 25°C-55°C, relative humidity is not more than 85%.There isn't heavy corrosive gas or any influence of dust, mold and insects.

## 2. Characteristics

2.1 35mm standard DIN rail installation,complying with standard DIN EN50022.

2.2 Standard configuration one port of pulse output passive (polarity), may select increase a distant port of pulse output passive (non-polarity), complying with standard IEC62053-21 and DIN 43864.

2.3 LED indicates power supply(Green), impulse(Red)

2.4 standard configuration S connection (bottom input, top output), Directly input connection.

2.5 Direct connect operation, optional through CT

2.6 Measure positive and reverse power, cumulative total power consumption

## 3. Parameters

Rated voltage: 3X230V

Frequency: 50Hz

Rated current: 63(100)A

Starting current: 0.004Ib.

Running with no-load: When the current circuit without current, the voltage circuit with 80%-110% reference voltage, there should be not more than one pulse.

Accuracy: Class 1.0

Voltage circuit consumption : ≤1.0W 8VA

Current circuit consumption: ≤1VA(Ib)

Normal working temperature: -15°C~+55°C

Storage transport temperature: -25°C~+70°C

Relative humidity: ≤ 85%

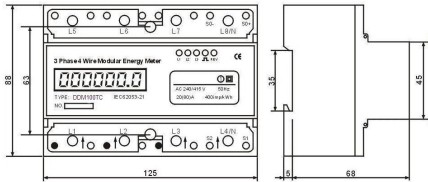
Dimension: 75\*88\*73.5mm

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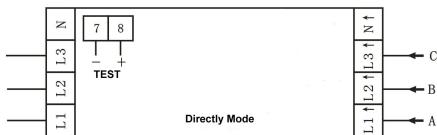
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## 5. Dimension



## 6. Connection Diagram



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## 7.Installation

7.1 The meter is tested as qualified for delivery with the lead seals on it, user should check before installation, if there is no seals or it has been stored for long time, then the meter should be re-calibration to ensure the precision match with IEC standard.

7.2 The meter should be installed indoor or meter box, in dry and ventilated place about 1.8m high and without stake or installed in special meter box.

7.3 Connection must be made in accordance with the drawing

7.4 Operation voltage must meet reference value, operation current can't exceed the maximum current. Otherwise it would cause damaged.

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## 8. Transportation and storage

8.1 The meter shouldn't be struck violently when it is being transported.

8.2 The meter should be stored in original package, Storage areas shall be clean and temperature within -25°C~+70°C. Relative humidity is less than 85% and without corrosive gas.

8.3 The meter is precious electronic instrument. If there are some obvious rift in being transportation or using, do not connect it with the power, please contact with our company.

8.4 If the meter hasn't been used for a long time,please store it in original package, which should not be more than 10 years.

## 9. Guarantee

Within 18 months since the delivery date, if it's found that the product does not conform to the standards, it would be repaired or replaced free on the condition that the customers operate it according to the instruction manual and the seal is intact.

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## Attention:

No warranty if case is opened or warranty seal is removed.

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