

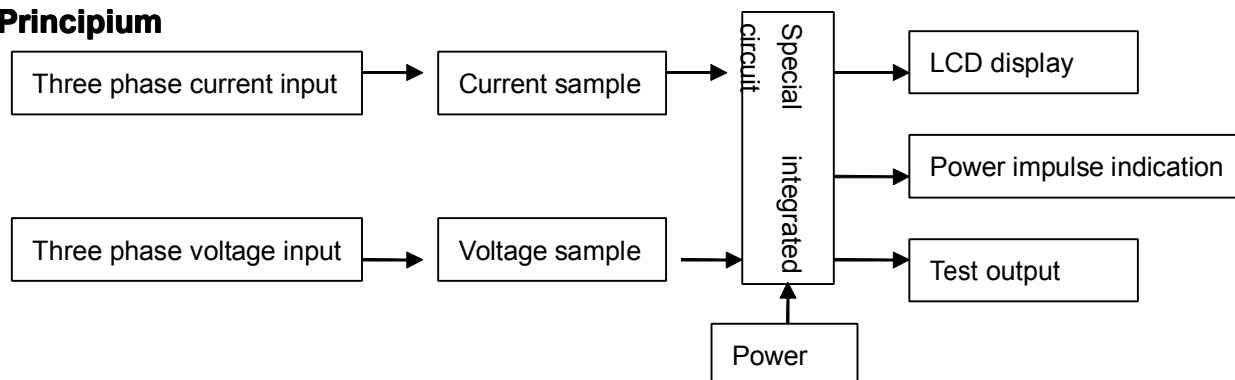
# INSTRUCTION

## THREE-PHASE MULTI-TARIFF ELECTRONIC METER WITH CT

### I . Standard

DIN RAIL: DIN46277/3 EN50022  
FUNCTION TEST: IEC 62052-11 2003 IEC62053-21 2003  
IMPULSE OUTPUT: IEC 62053-31 1998  
COMMUNICATION: MODBUS-RTU

### II. Principium



Sending the sampling current and sampling voltage into the special IC, through the inner cushion amplifier, deliver to multiplying unit, multiply the voltage signal and current signal. Then through A/D conversion, convert the logic signal to the digital signal, then through frequency dividing circuit and drive circuit, use impulse output of electricity quantity signal for the drive impulse and electro- Indexes.

### III. Technical Specification

1. LCD display when power off

2. Specification

Type	Accuracy Class	Rated Voltage (V)	Rated Current (A)	Constant	Display
DIN03105A	1.0	3×230/400	1.5(6)	12000imp/kWh	LCD6+2

3. Startup

The meter can be started and recorded continuously at the reference current(see the table)

Meter	Meter Class			Power Factor
	1	2	3	
Connect directly	0.004Ib	0.05Ib	0.01Ib	1

4. Creep

Its output is less than 1 impulse when the rated voltage is 115% or current loop without current.

### IV. Electric parameter

Working voltage: 0.9—1.1 Rated voltage  
Utrmost voltage: 0.8—1.15 Rated voltage  
Power consumption: ≤2W and 8VA  
Display mode: LCD 6+2 = 999999.99kWh

### V. Basic function

5.1 The meter could count in 2/4 tariffs and could read and set the kWh, time, tariff and address.

5.2 The meter time is in 24 hours and 12 digits meter address. The default address is 000000000000 and the default password is 00000000 which is 8 digits.

5.3 It is according to MODBUS-RTU Protocol and the default baud rate is 9600. Note that the baud rate can't be set via RS485.

## VI. Weather condition

### 6.1 Temperature

Normal temperature: -20~70℃

Ultra temperature: -25~80℃

Temperature for storage and transportation: -25~70℃

### 6.2 Humidity

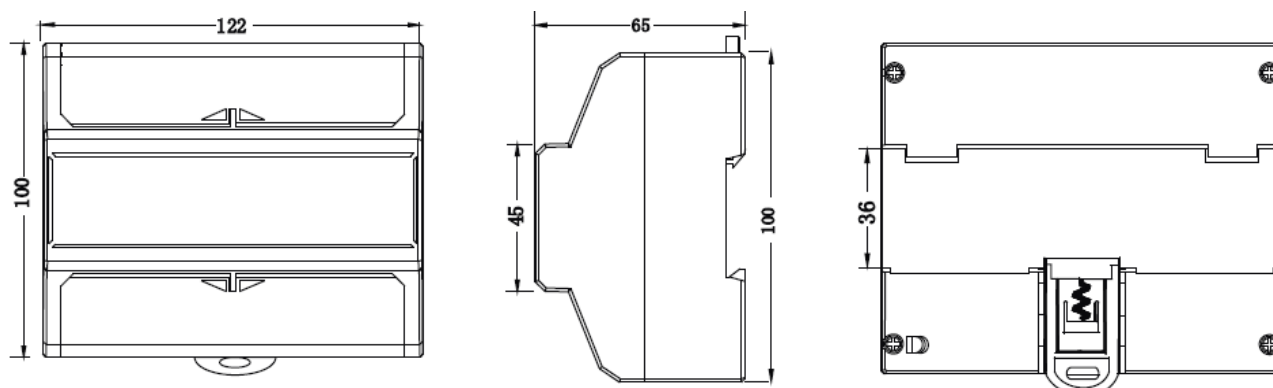
Annual average humidity: ≤75%

30 days in a year (as natural diffusion) may reach 95%, and other time may reach 85%, sometimes.

## VII. Exterior dimension: 122mm×100mm×65mm

## VIII. Installation and connection

Installation dimension :mm



Connection diagram

Figure 1

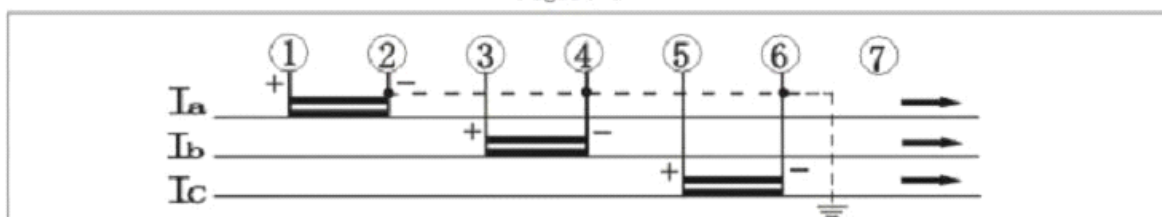
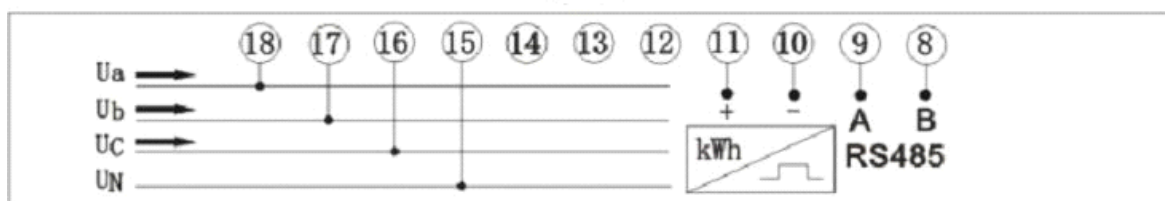


Figure 2



## IX. Transportation and storage

The meter should be packed and can not be over-shocked in the process of transportation and storage. It should be according to transportation and storage rule of GB/T15464-1995 currency packing condition of

instruments.

Keep the meter in the original package when storage, and the unit meter fold layer should not be more than 5 pieces. Keep the storage place clean. The storage temperature range should be  $-20^{\circ}\text{C}$  —  $+70^{\circ}\text{C}$ , and the relative humidity should be  $\leq 85\%$ . There is no corrupt gas in the air.

Time limit of guarantee

Within 18 months from the day of sale, and on the condition that the user abide by the specification and the sealing is kept completely. If the meter is not correspond under the rule of enterprise standard, it can be repaired for free or replaced.