DDZY858C型

Single-phase tariff control intelligent electric meter



Single-phase tariff control intelligent electric meter(CPU card)

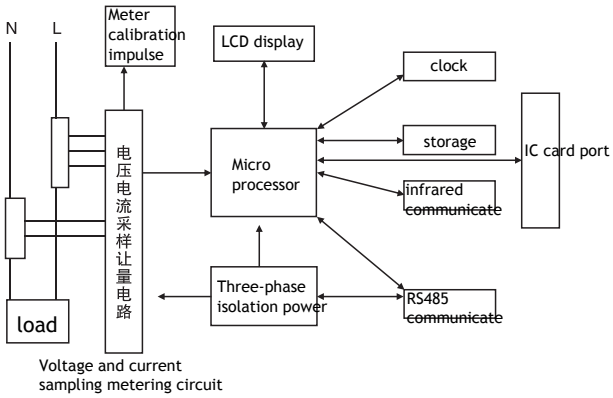
1.Summary

2 level single-phase tariff control smart energy meter,is designed by the National Grid standard. This meter adopts digital signal processing chip, long-time information storage, full isolation standard RS485 communication port and infrared communication,Large screen wide temperature LCD and ESAM module of information security. Meter adopts SMT(surface mount technology),high strength and flame retardant, environmental material shell, it has high insulation strength and high corrosion resistance.

This meter integrates functions together likes electricity measure, information storage and dealing,real-time monitoring,auto control,information interaction,can eliminate delinquent behavior effectively and conform to the effective and timely management requirements of users. This product conforms to standard of IEC 62053-21-2003 DL/T.

2.Operate principle

Intelligent energy meter operating,voltage is converted to sampled signal by sensor part,and signal after filtering would sent into measure chip. The metering chip transforms the energy signal into a pulse signal to CPU, to collect electricity pulse,and calculation and analysis of electric power consumption,the results are stored in the data storage. At the same time CPU complete functions of security certification, infrared, 485 meter reading, LCD display and others. Meter has the temperature compensating circuit chip,ensure that guaranteed clock error at nominal temperature less than 0.5s/d. On the data security adopts Redundancy design, Using multiple data backup,Ensure reliable measurement data.



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3.Technical parameter

◆ voltage range

Specified operating range	0.9Un~1.1Un
Extended operating range	0.8Un~1.15Un
Ultimated operating range	0.0Un~1.15Un

voltage circuit with 380V AC voltage 1 hour,meter can operate normally without damage.

◆ Meter with short-time overload current 30Imax,it can operate normally without damage. Charge time is half cycle of rated frequency(inside load switch meter has no require)

◆ Frequency:Standard reference frequency 50Hz,operate under frequency 45Hz~65Hz.

◆ Clock: adopts the built-in hardware clock circuit with temperature compensation function, has the calendar, timing, leap year automatic conversion function. Inside clock terminal output frequency is 1Hz. Between -25°C~+60°C,clock accuracy≤±1s/d. Under reference temperature(23°C),clock accuracy≤±0.5s/d.

◆ start current: active≤0.004Ib(direct wiring),active≤0.002Ib(transformer wiring).Meter has impulse output or energy output light flashing,start time shall no more than Q/GDW 1364-2013 required.

◆ shunt running: voltage circuit with 115%Un, when current circuit without current,impulse output no more than 1,has Logical anti-creep function

◆ Humidity and temperature range:

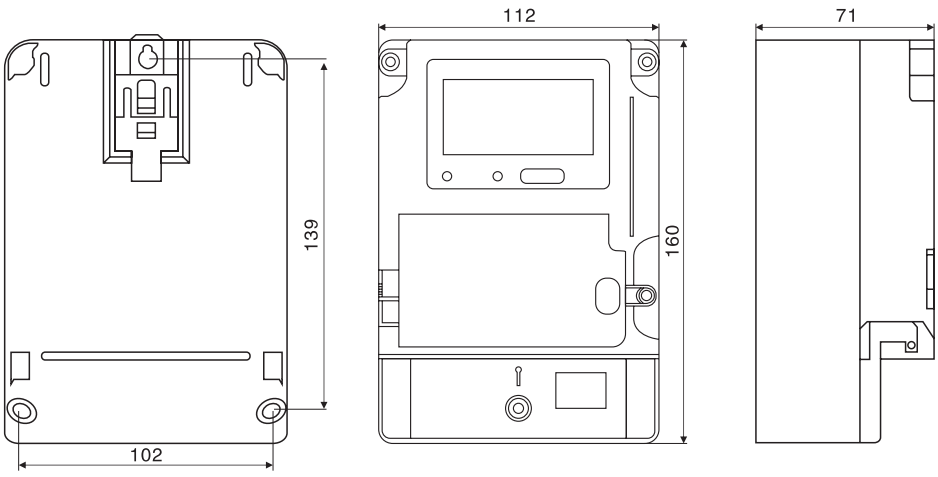
specified operate range	−25℃−+60℃	annual average relative humidity	<75%
ultimate operate range	−40℃−+70℃	natural distribution within 30 days of a year	95%
storage and transport ultimate temperature	−40℃−+70℃	Occasional appearance on other days	85%

◆ power consumption: under reference voltage,reference temperature and reference frequency,reactive power and apparent power consumption of meter voltage circuit shall no more than 1.5W,10VA under non-communicate state, under communicate state,it shall no more than 3W,12VA.

◆ electricity LCD display:0~999999.99kWh

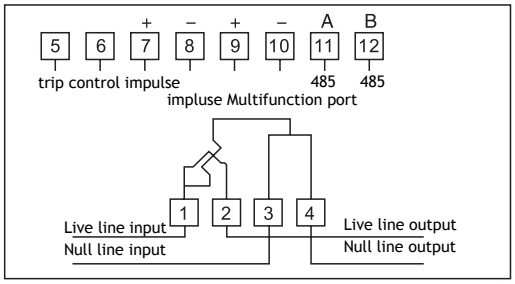
◆ Adopts Long life environmental protection lithium battery,capacity≥1.2Ah, In the electric energy meter in the life cycle without changing,after the power-off,it can maintain the internal clock correctly working more than 5 years,when the battery voltage is insufficient,the meter can automatically prompt and alarm.

4.Install mode



5.Install mode

The direct access



Note: internal switch meter terminal 5,6 no connecting.

Prohibited non charged wiring
The meter is installed in the room as far as possible, and the special instrument box shall be used to protect the outdoor installation,Install bottom plate shall fixed at strength and fire resistance,no vibrate wall. And the corrosion gas shall be avoid.
Using the energy meter must be strictly in accordance with the wiring diagram of the tail cover wiring, terminal is connected to a lead suggested the use of copper, terminal seat fixed lead screw should be tightened, the avoid because of poor contact heating, which makes the electric energy meter burned.