

DDSY39 (LED) Single-phase Prepayment Static Energy Meter

Summary

DDSY39 (LED) single-phase prepayment static energy meter is which adopts based on special large-scale integrated circuit and SMT technology, adopting industrial elements and components with long lifetime introduced from abroad. It preserves data under power-off situation. This product conforms to IEC62055-21-2005 & GB/T18460: Electricity metering, prepayment systems. and IEC62053 & GB/T18460.3-2001: class 1 and class 2 static AC active watt-hour meter. It mainly applies to the occasions like-as a advancing power purchasing to carry out power prepayment and max. load control. This product has characteristics like-of long service duration, high accuracy, good over-load capacity and small volume.



Technical specification

1. Electrical performance:

Class of accuracy: 1.0, 2.0;

Conformed standards: IEC62053 & IEC62055; GB/T17215-2002; GB/T18460.3-2001;

Normal working voltage: $0.9U_n \sim 1.1U_n$;

Limit working voltage: $0.8U_n \sim 1.15U_n$;

Insulating voltage: $\geq 2000VAC$;

Power consumption: $\leq 2W \& 10VA$;

Power of voltage circuit: $\leq 1.5W(8VA)$;

Power of current circuit: $\leq 3VA$;

Start-up: as reference voltage, reference frequency and power factor are 1, load current is 0.4%I_b and 0.5%I_b, the meter should be metering in continuity.

Shunt running: when voltage circuit is enforced with 115% of reference voltage, without current, the meter light loss indication, meter output no impulse.

Life: 10 years.

2. Ambient condition

Normal working temperature: $-30^{\circ}C \sim +55^{\circ}C$;

Limit working temperature: $-40^{\circ}C \sim +70^{\circ}C$;

Stockpile and transportation temperature: $-45^{\circ}C \sim +70^{\circ}C$;

Relative humidity: annual average $\leq 80\%$.

Model

Model	Rated frequency(Hz)	Nominal current(A)	Meter constant (imp/kwh)
DDSY39(220)	50/60	1.5(6), 2.5(10), 5(20), 10(40), 15(60)	As nameplate

Product function

1. Dual directional metering function:

Metering both negative and positive power accurately, accumulating electric quantity in single direction, anti-tampering function is available.

2. Adopting photoelectric isolation technology to output power impulse signal and LED to indicating electricity power.

3. Advancing purchasing system: the power will be cut-off when there is no more purchased energy.

4. Rolling display with the used and the residual quantity on digital screen.

5. Memorizing function: the data preserved well when power is cut-off.

6. Alarming function: the meter will send alarming signal when residual power is lower than settled power.

7. Adopting full solid and integrated circuit technology to protect data, the data can be preserved for over 20 years after power-off.