FU2040

SINGLE PHASE STOP DIGITAL SOLAR POWER METER

FU2040 solar power panel meter is a LCD display single phase or three phase stop digital solar power meter, metering and displaying all the measured parameters in one circuit and computing four quadrants energy. This model can work in wide temperature range. It is an intelligent three-phase comprehensive power monitoring meter, with integrating programmable, automatic measurement, LCD display, energy accumulation & digital communication function etc. FU2040 power meter can be widely used in electric, automatic controlling and dispatching systems in industrial sectors such as electric power, posts, energy, railway, construction and telecommunications, etc.

Features

1. 3-line LCD with backlight;
2. 3P4W, 3P3W, 1P2W and 1P3W;
3. PT, CT ratio is be programmable;
4. Can compute four quadrants energy;
5. Direct voltage input up to 600V / AC;
6. Can work in wide temperature range;
7. Can measure all the electrical parameters;
8. Rugged enclosure for harsh environments;
9. Small dimension mounting panel 72x72mm;
10. Compatible with both 50Hz and 60Hz systems;

Application

1. Airport;
2. Power plant;
3. Energy meter;
4. Industrial system;
5. Intelligent building;
6. Data transmission center;
7. Power monitoring system;
8. Photovoltaic power station;
9. Commercial, industrial, utility;
10. High voltage distribution cabinet;
11. Low voltage distribution cabinet;
12. Electric energy metering cabinet;
13. Mobile communication company;
14. Industrial and mining enterprises;
15. Medium and low voltage systems;
16. Energy consumption monitoring system;
17. Metering of distribution feeders, transformers, generators, capacitor banks and motors;
18. Electric energy metering of photovoltaic power station;

Parameters

Electrical parameters	
Power supply (AC/DC)	AC 85-265V / DC 85-330V Power consumption: <4VA
Class	1
Measurement parameters	Voltage (Ph-N); Voltage (Ph-Ph); Current; Frequency; PF; Active Power (W); Reactive Power (Q); Apparent Power (S)
Computation	Forward / Reverse active / reactive power energy
Measuring range	30-600V, 0-6A, 45-65Hz
Measuring accuracy	Frequency: 0.1% Electric energy: 0.5%, 1.0% Voltage : 0.2%±0.1V Current : 0.2%±0.001A Power : 0.5% ±0.4W Power Factor : 0.5% ±0.001
Display	LCD display; 3 display; 4 operation keys
Communication	Support RS485 interface port, 32(128) networking, Modbus-RTU communication protocol.
Programmable	Measuring system: 3P4W/3P3W etc Transformation ratio : PT, CT Communication: Address: 1-247; Baud: 1200~19200; Parity bit: N/E/O Energy: reset
Connection mode	3P4W, 3P4W BAL, 3P3W, 3P3W BAL, 1P2W, 1P3W
Standard	EN610101:2010; EN61010-2-030:2010; EN61326-1:2013; EN61000-3-2:2014; EN61000-3-3:2013; IEC61000-4; IEC61557-12; IEC60068-2-1/2/30 IEC 62052-11; IEC 62053-21; IEC 62053-22
Mechanical parameters	
Dimensions (mm)	Mounting panel: 72x72 Thickness: 13 Depth: 60
Weight	450g
Mounting	Panel mounting Trepanning: 68x68mm
Environmental conditions	
Temperature	-25 to +50°C
Humidity	20%-95%RH, without condensation