DH-PFM377-D2440

Special distribution box of DAHUA solar power supply system

Features

- The control system of the solar power supply system, used to control the charge and discharge of the small off-grid solar power system;
- This product includes a MPPT solar charge and discharge controller, a lightning arrester, a DC circuit breaker and a distribution box, etc.
- **MPPT solar charge and discharge controller:** max. MPPT tracking efficiency is up to 99%, can significantly improve the energy utilization of photovoltaic system, which is 15%~20% higher than that of traditional PWM; use advanced digital power supply technology, the efficiency of circuit energy conversion is up to 98%; support automatic identification of system voltage, current limiting charging mode, built-in over temperature protection mechanism, etc.
- **Lightning arrester:** max. discharge current 20kA;
- **DC circuit breaker:** high arc extinguishing ability, more safe and reliable than the AC circuit breaker;
- **Distribution box:** IP54, 1.2mm thick SUS201 material, with the cooling function, when the temperature is higher than 45℃, the fan will open automatically.

Technical Specifications

Model	DH-PFM377-D2440
Control Part	
Controller type	MPPT
System voltage	12VDC/24VDC Auto
Max. battery voltage	9VDC~70VDC
Max. power point voltage range	Battery voltage+2VDC~75VDC
Rated charging current	40A
Rated load current	20A
Max. capacitive load capacity	10000μF
Max. input open voltage of solar panels	100V(25℃); 90V(-25℃)
Max. input power of solar panel	550W/12VDC; 1100W/24VDC
MPPT tracking efficiency	＞99%
Conversion efficiency	≤98%
protection	Input power limit protection, reverse protection, overload protection, input shirt circuit protection of solar energy, load short circuit protection, anti-recoil protection at night, over-temperature protection
No-load loss	0.7W~1.2W
Communication mode	RS232/RS485
Distribution Part	
DC circuit breaker	2P/40A/DC500V
Lightning arrester of DC power	24VDC/20kA
Distribution box	
Material	1.2mm thick SUS201+spraying
Dimension	600mmx400mmx226mm(23.62"x15.75"x8.9")
Installation method	Pole mount, Ø180mm~Ø300mm(Ø7.09"~Ø11.81")
Color	RAL7035
Protection degree	IP54
Fan	2*fans, automatic temperature control(45℃±3℃)
Overall	
working temperature	-35℃~+55℃(-31℉~131℉)
Altitude	≤3km
Weight	17kg(37.48lb)
Package dimension	610mmx410mmx236mm(24".02x16.14"x9.29")

Order Information

Product	Part Number	Description
Power series	DH-PFM377-D2440	Special distribution box of solar power supply system

Application

Package Information

- Special distribution box of solar power supply system DH-PFM377-D2440 *1
- Stainless steel hoop, mounting screws, photovoltaic cable(10m), common cable(10m)

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