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BX48D3000 Series 2024-2025 V1.0



Solar base station PV module

BX 48D3000 Series

Standard: GB/T 26264-2010
YD/T 2321-2020
YD/T731-2018



Product introduction

The BX48D3000 PV DC-DC module can be used alone, but also as a module for wind, light, oil, and mixed power hybrid power supply system. The module has the advantages of high reliability, applicable for most of scenarios, and easy maintenance. It has been widely used in communication base stations and oil Wells & Fields, road administration and transportation, forest protection, solar energy monitoring and other scenes and projects.



Key advantage

- Small size, high power density (1U industrial design)
- Wide range single-phase input: (120Vdc-420Vdc)
- Conversion efficiency is more than 97%
- It has MPPT function and the tracking efficiency is greater than 99%
- Intelligent control, support RS485 communication and CAN communication
- High reliability and multiple protection functions

Specifications and parameters of BX 48D3000 Solar base station PV module

Maximum power input from photovoltaic	3300W
Photovoltaic input voltage range	120~420Vdc
Maximum current input to photovoltaic	18A
Output rated power	3000W
Rated output current	50A (maximum 60A)
Peak conversion efficiency	≥97%
MPPT Tracking efficiency	≥99%
Communication mode	RS485 /CAN
Output voltage: nominal value	-57VDC
And the adjustable range of output voltage	DC-40V~DC-60V adjustable
Overvoltage protection and recovery	Overvoltage 420V/recovery 410V
Output overcurrent protection	Yes
Output short circuit protection	Yes
Output overvoltage protection and recovery	Overvoltage default 60V/recovery 57V (adjustable)
Reverse discharge protection	Yes
Polarity reverse protection	Yes
Overtemperature protection	Yes
Physical communication alarm interface (dry contact)	Input a group / output a group (passive signal)
LED show	Red (fault), yellow (alarm), green (standby and operation)
Working temperature	-20°C~+50°C
Storage temperature	-40°C~+75°C
Relative humidity	No condensation 5~95%
Elevation requirements	0~4000m (when 3000~4000m, the ambient temperature decreases by 1 degree for every 100m increase in height)
Mode of connection	hot plug
Insulation resistance	≥2
Earthing resistance	≤0.1
Surge protection	≥10kA
High-voltage insulation test	Input-output 2120Vdc (leakage current less than 10mA no arc no breakdown)
	Input--ground, input--ground 1250Vdc (leakage current less than 10mA no arc no breakdown)
	Communication port--ground 500Vdc (leakage current less than 10mA no arc no breakdown)
Size	332.8mm*105mm*41mm
Levels of protection	IP20