

BDM-300/400

Micro Inverter



Features

- efficiency**
 - MTTP tracking efficiency up to 99.9%
 - DEC weighted average efficiency up to 96.5%
 - independent MTTP tracking
 - Different orientations & other "short board effects"
 - Like system shadow occlusion
- security**
 - maximum DC input voltage is 60V
 - equipped with various protections such as GFDL surge protection
- reliability**
 - IP66/IP67 protection level
 - 10 years warranty with 25 years extension
 - -40°C to 85°C operating temperature
- flexibility**
 - plug and play installation
 - easy to expand or change
 - simple and convenient
- certification**
 - UL, CSA, VDE-AR-N 4105, VDE 0126, CE and others
- intelligence**
 - component level monitoring with built-in PLC and WiFi communication methods
 - real-time control of power plant operation status
 - accurate to every minute of data
 - automatic high temperature and fault warning
 - precise positioning of fault points



- More effective** | Max. Efficiency 97.1%
- Global Certification** | C-ETL-US, SAA, TUV, VDE-AR-N 4105, VDE 0126, GB3
- More secure** | Built-in grounding
Lightning protection 6000V
- More Reliability** | IP67

Model

BDM-300/400

Input DC	BDM-300	BDM-400
Recommended PV Module Power Range /W	450	600
MPPT Voltage Range /V	22-55	
Startup Voltage /V	24	
Max. Input Voltage /V	60	
Max. Input Current /A	14	
Overvoltage Protection Category	II	
Output AC	BDM-300	BDM-400
Peak Output Power /VA	350	400
Max. Continuous Output Power /VA	300	350
Rated Output Voltage /V	230	
Nominal Output Voltage Range /V	Configurable	
Max. Continuous Output Current /A	1.3	1.52
Nominal Frequency / Range /Hz	50 / Configurable	
Power Factor (Nominal/Adjustable Range)	1.0/0.9 leading...0.9 lagging	
AC Short Circuit Fault Current Over 3 cycles /Arms	2.2	2.4
THDi@Rated Power	<3%	
Max. Units per 20A Branch	12	10
Overvoltage Protection Category	III	
Efficiency	BDM-300	BDM-400
Peak Efficiency	97.1%	97.3%
MPPT Efficiency	>99.5%	
Night Power Consumption /mW	80	
General Data	BDM-300	BDM-400
Operating Ambient Temperature Range/°C	-40~65	
Relative Humidity Range	0-100%	
Dimensions (W x H x D) /mm	180 x 186 x 25	
Weight /kg	1.5	
DC Connector Type	MC4	
AC Connection Type (inverter-inverter)	Daisy Chain AC Bus	
Communication Method	PLC or WiFi	
Protection Class	IP-67	

1 The AC voltage range may vary depending on specific country grid
2 The AC frequency range may vary depending on specific country grid