

NORTHERN ELECTRIC

BDM-300/500

NEP Microinverters



Features

Convenient

- Built-in PLC or WiFi
- Inter-connectable With BDM-300

Safe and Reliable

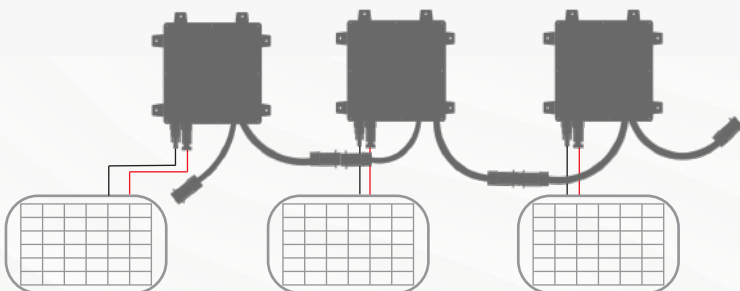
- Integrated Grounding for Easy Installation
- Integrated Daisy Chain AC Cable

Globally Certified

- UL 1741-SA, SAA, TUV, VDE-AR-N 4105, VDE 0126, G83/2, CEL 021, IEC61727, EN504387, TOR Erzeuger Type A

Efficient

- High Efficiency 96.5% CEC
- Panel Level MPPT



More Effective

Max. Efficiency 96.5%



Global Certification

UL 1741-SA, SAA, TUV, VDE-AR-N 4105, VDE 0126, G83/2



More Secure

Built-in Grounding
Lightning Protection 6000V



More Reliability

IP67

Model

BDM-300/500

Input (DC)	BDM-350		BDM-400	
Recommended Max PV Power	450 W		550 W	
Max DC Input Current	14 A		16 A	
Max DC Open Circuit Voltage	60 Vdc			
MPPT Tracking Accuracy	> 99.5%			
MPPT Tracking Range	22 - 55 Vdc			
ISC PV (Absolute Maximum)	18 A			
Maximum Inverter Backfeed Current to the Array	0 A			
Output (AC)	BDM-350		BDM-400	
Peak AC Output Power	350 W		400 W	
Rated AC Output Power	350 W		350 W	
Nominal Power Grid Voltage	240 Vac	208 Vac	240 Vac	208 Vac
Allowable Power Grid Voltage	211 - 264 Vac	183 - 228 Vac	211 - 264 Vac	183 - 228 Vac
Rated Output Current	1.46 A	1.68 A	1.46 A	1.68 A
Maximum Number of Units Per Branch (20A) (All NEC adjustment factors have been considered)	10	9	10	9
Allowable Power Grid Frequency	59.3 - 60.5 Hz			
THD	> 3% (at rated power)			
Power Factor (cos phi, fixed)	-0.99 > 0.9 (adjustable) (0.9un ~ 0.9ov)			
Current (inrush) (Peak and Duration)	15A 15us			
Nominal Frequency	60 Hz			
Maximum Output Fault Current	2.5 A			
Maximum Output Overcurrent Protection	6.3 A			
System Efficiency	BDM-350		BDM-400	
Weighted Average Efficiency (CEC)	96.50%		96.50%	
Night Time Tare Loss	0.11 W		0.11 W	
Protection Function	BDM-300		BDM-400	
Over/Under Voltage Protection	Yes		Yes	
Over/Under Frequency Protection	Yes		Yes	
Anti-Islanding Protection	Yes		Yes	
Over Current Protection	Yes		Yes	
Reverse DC Polarity Protection	Yes		Yes	
Overload Protection	Yes		Yes	
Protection Degree	NEMA-6 / IP-66 / IP-67			
Ambient Temperature	-40°F to +149°F (-40°C to +65°C)			
Operating Temperature	-40°F to +185°F (-40°C to +85°C)			
Display	LED Light			
Communications	Power Line			
Dimension (W x H x D)	8.8"x8.2"x1.38" (268x250x42 mm)			
Weight	6.4 lbs (2.9 kg)			
Environment Category	Indoor and Outdoor			
Wet Location	Suitable			
Pollution Degree	PD 3			
Over Voltage Category	II(PV), III (AC MAINS)			
Product Safety Compliance	UL 1741-SA/SB, CSA C22.2, NO. 107.1, IEC/EN 62109-1, IEC/EN 62109-2			
Grid Code Compliance* (Refer to the label for the detailed grid code compliance)	IEEE 1547.1 (2018), VDE-AR-N 4105*, VDE V 0126-1-1/A1, G83/2, CEI 21, AS 4777.2, AS 4777.3, EN50438, ABNT NBR 16149/16150			