

NORTHERN ELECTRIC

# BDM-300x2

## NEP Microinverters



### Features

#### Convenient

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

#### Safe and Reliable

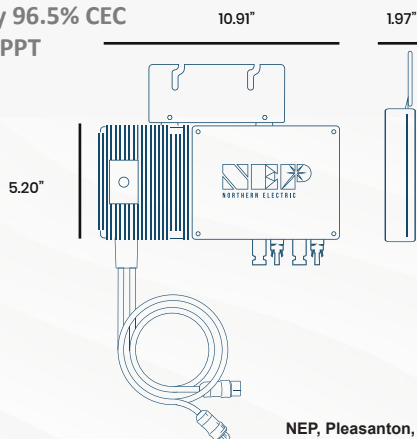
- Integrated Grounding for Easy Installation
- Integrated Daisy Chain AC Cable

#### 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-300x2

Input (DC)		BDM-300x2	
Recommended Max PV Power		450 W x 2	
Max DC Open Circuit Voltage		60 Vdc	
Max DC Input Current		14 A	
MPPT Tracking Accuracy		> 99.5%	
MPPT Tracking Range		22 - 55 Vdc	
ISC PV (Absolute Maximum)		18 x 2 A	
Maximum Inverter Backfeed Current to the Array		0 A	
Output (AC)		BDM-300x2	
Rated AC Output Power		500 W	
Nominal Power Grid Voltage	240 V	208 V	
Allowable Power Grid Voltage	211V-264	183V-229	
Rated Output Current	2.13 A	2.45 A	
Maximum Number of Units Per Branch (20A) (All NEC adjustment factors have been considered)	7	6	
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)	24 A, 15us		
Nominal Frequency	60 Hz		
Maximum Output Fault Current	4.4 A Peak		
Maximum Output Overcurrent Protection	20 A		
System Efficiency		BDM-300x2	
Weighted Average Efficiency (CEC)	96.50%		
Night Time Tare Loss	0.11 W		
Protection Function		BDM-300x2	
Over/Under Voltage Protection	Yes		
Over/Under Frequency Protection	Yes		
Anti-Islanding Protection	Yes		
Over Current Protection	Yes		
Reverse DC Polarity Protection	Yes		
Overload Protection	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)	10.91"x5.20"x1.97" (277x132x50 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	L 1741-SA, CSA C22.2, NO. 107.1, IEC/EN 62109-1, IEC/EN 62109		
Grid Code Compliance* (Refer to the label for the detailed grid code compliance)	IEEE 1547, 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		