



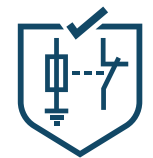
# BDM-800

## Grid-tie Micro Inverter System

### Features

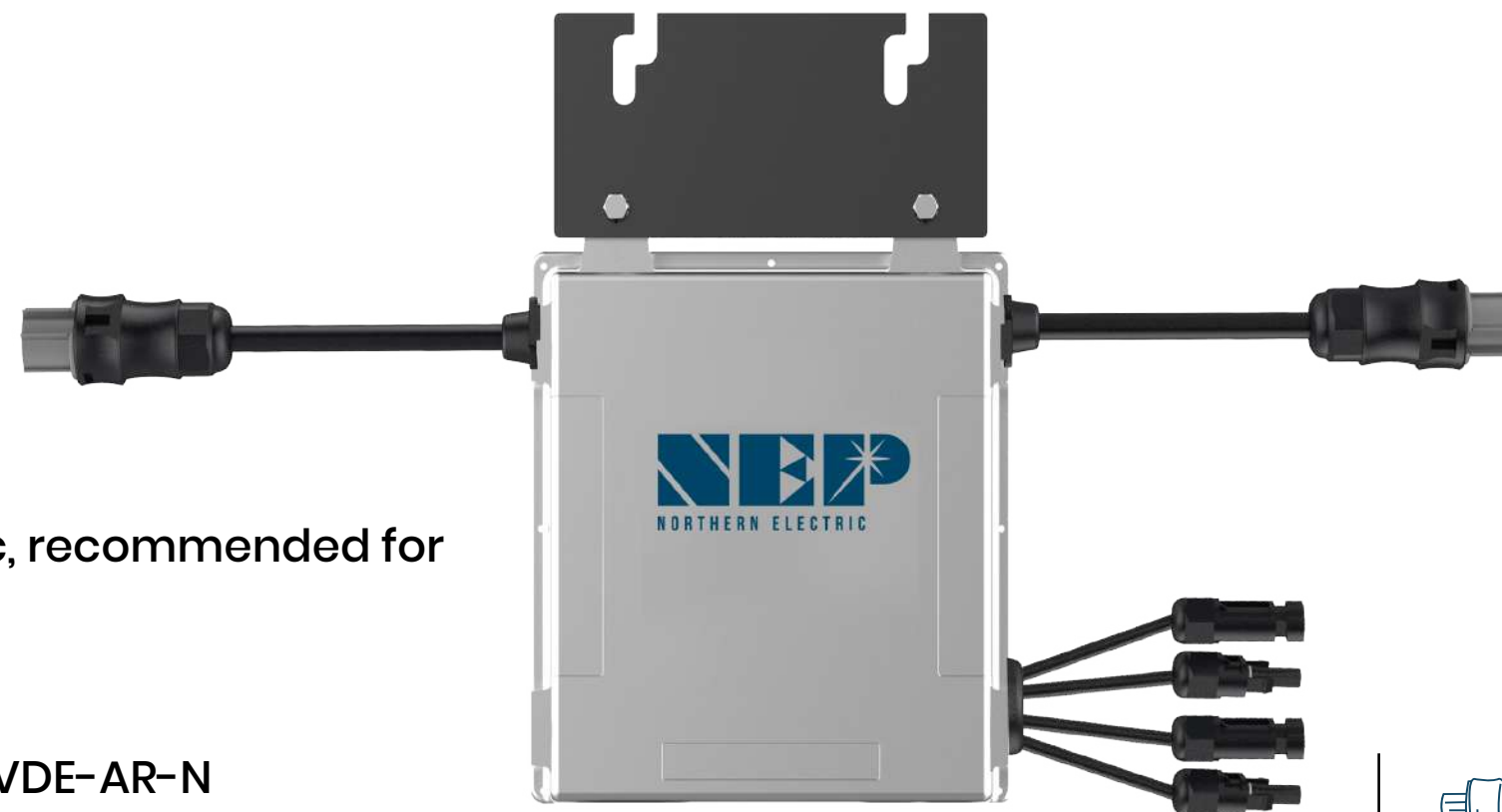


- U.S. California Rule 21 Certified
- Low cost \$/watt micro inverter
- High continuous output power up to 800Wac, recommended for dual max 480W solar panel
- High efficiency with 96.5% CEC
- Globally certified for Rule 21, UL1741, SAA, TUV, VDE-AR-N 4105, VDE 0126, G83/2, CEI 021, IEC61727, EN50438, TOR



Erzeuger Typ A

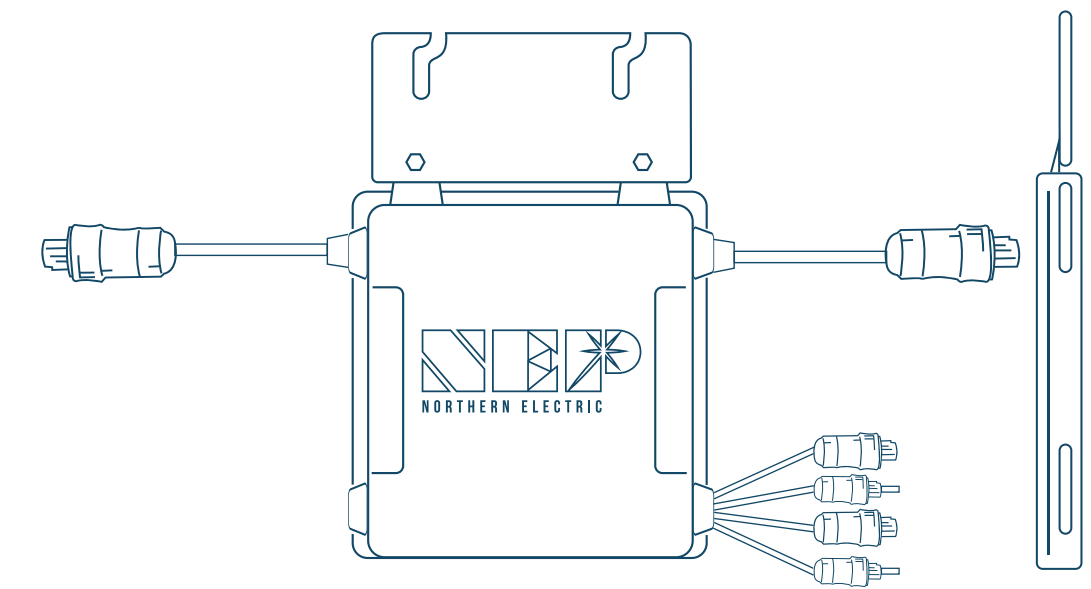
- Integrated grounding for easy installation
- NEMA-6/IP-66/IP-67 enclosure rating
- Integrated monitoring and power line communication with BDG256 gateway
- Can connect with BDM-1500, BDM-600 (aka BDM-300X2), BDM300 and BDM-250



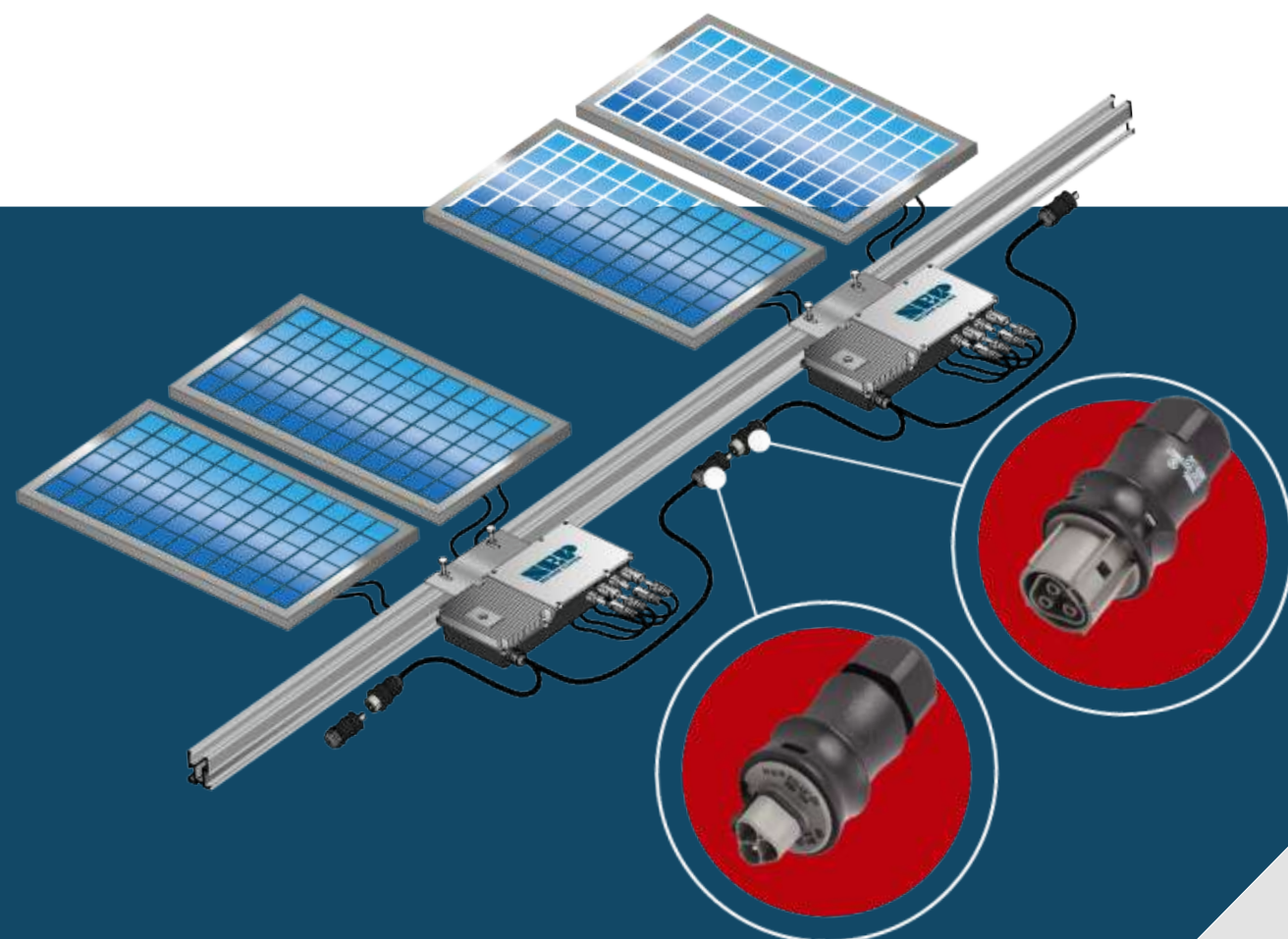
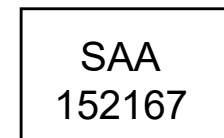
7.48"

9.84"

1.50"

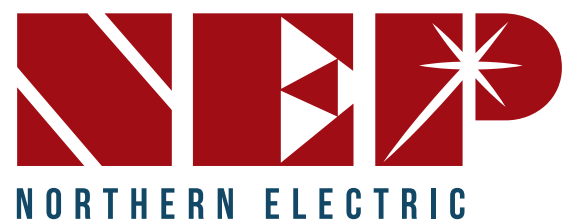


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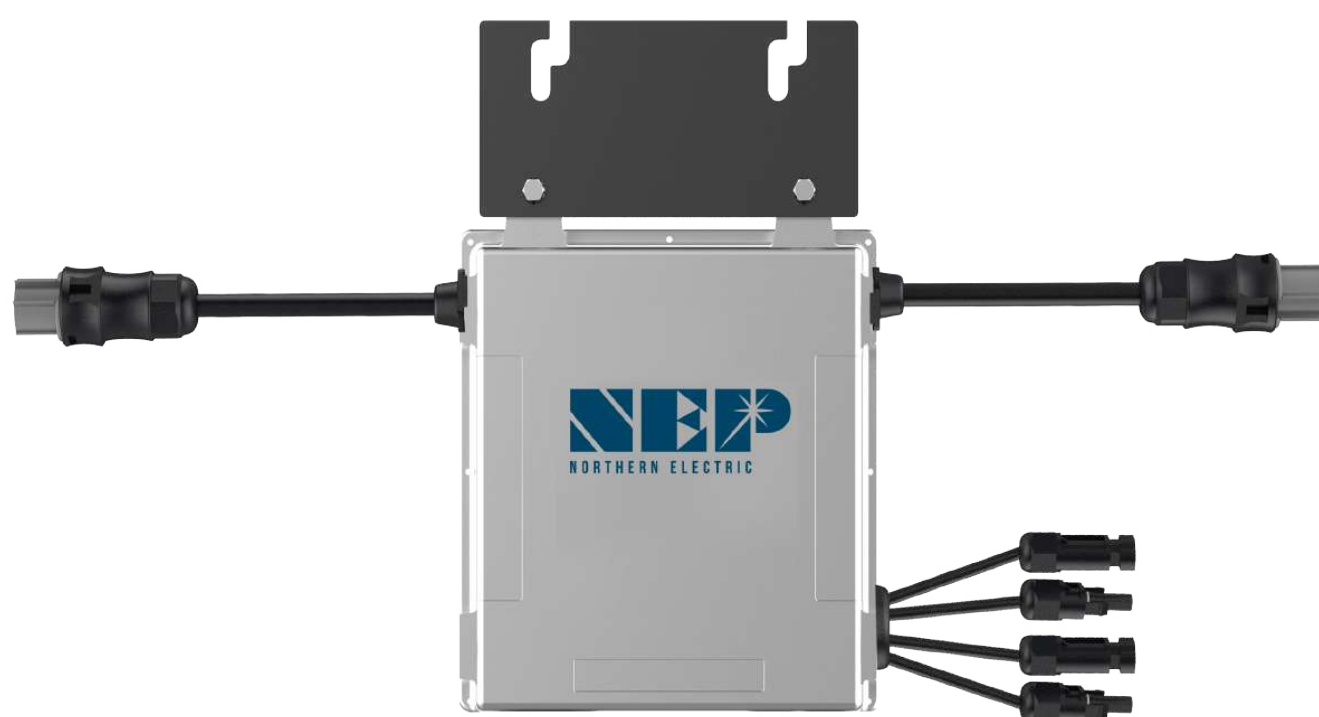
### Important product information

- NEP is committed to developing Clean, Affordable, Reliable and Efficient (CARE) products for our customers worldwide.
- NEP microinverters have an isolation transformer and basic isolation between the DC input and the AC output network.



# BDM-800

## Grid-tie Micro Inverter System



\* Grid parameters are configurable through a BDG-256 or BDG-256P3 gateway  
 \* All NEC required adjustment factors have been considered for AC outputs. AC current outputs will not exceed stated values for Rated Output AC Current

### COMPLIANCE

\*NEC 2014 Section 690.11 DC Arc-Fault Circuit Protection  
 \*NEC 2014 Section 690.12 Rapid Shutdown of PV Systems on Buildings  
 \*NEC 2014 Section 705.12 Point of Connection (AC Arc-Fault Protection)

<b>INPUT(DC)</b>	Max Recommended PV Power (Wp)	550 x 2			
	Max DC Open Circuit Voltage (Vdc)	60			
	Max DC Input Current (Adc)	15 x 2			
	MPPT Tracking Accuracy	>99.5%			
	MPPT Tracking Range (Vdc)	22-55			
	Isc PV (absolute maximum) (Adc)	20 x 2			
	Maximum Inverter Backfeed Current to the Array (Adc)	0			
<b>OUTPUT (AC)</b>	Peak AC Output Power (Wp)	800			
	Rated AC Output Power (Wp)	768	750		
	Nominal Power Grid Voltage (Vac)	240	208	230	
	Allowable Power Grid Voltage (Vac)	211-264*	183-229*	configurable*	
	Allowable Power Grid Frequency (Hz)	59.3 a 60.5*		configurable*	
	THD	<3% (at rated power)			
	Power Factor (cos phi, fixed)	>0.99 (at rated power)			
	Rated Output Current (Aac)	3.2	3.61	3.26	
	Current (inrush)(Peak and Duration)	9.4A, 15us			
	Nominal Frequency (Hz)	60	50		
	Maximum Output Fault Current (Aac)	9.6A peak			
	Maximum Output Overcurrent Protection (Aac)	10			
	Maximum Number of Units Per Branch (20A) (All NEC adjustment factors have been considered)	5	4	5	
	<b>SYSTEM EFFICIENCY</b>	Weighted Averaged Efficiency (CEC)	96.50%		
		Night Time Tare Loss (Wp)	0.11		
<b>PROTECTION FUNCTIONS</b>	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-H-D)	10.55'x9.84'x165' (268x250x42 mm)			
	Weight	6.4 lbs. (2.9 kg)			
	Environment Category	Indoor and outdoor			
	Wet Location	Suitable			
	Pollution Degree	PD 3			
	Overvoltage Category	II(PV), III (AC MAINS)			
	Product Safety Compliance	California Rule 21 Certified UL 1741 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 1547-2018		VDE-AR-N 4105* VDE V 0126-1-1/A1 G83/2, CEI 021 AS 4777.2 & AS 4777.3, EN50438 Erzeuger Typ A	