

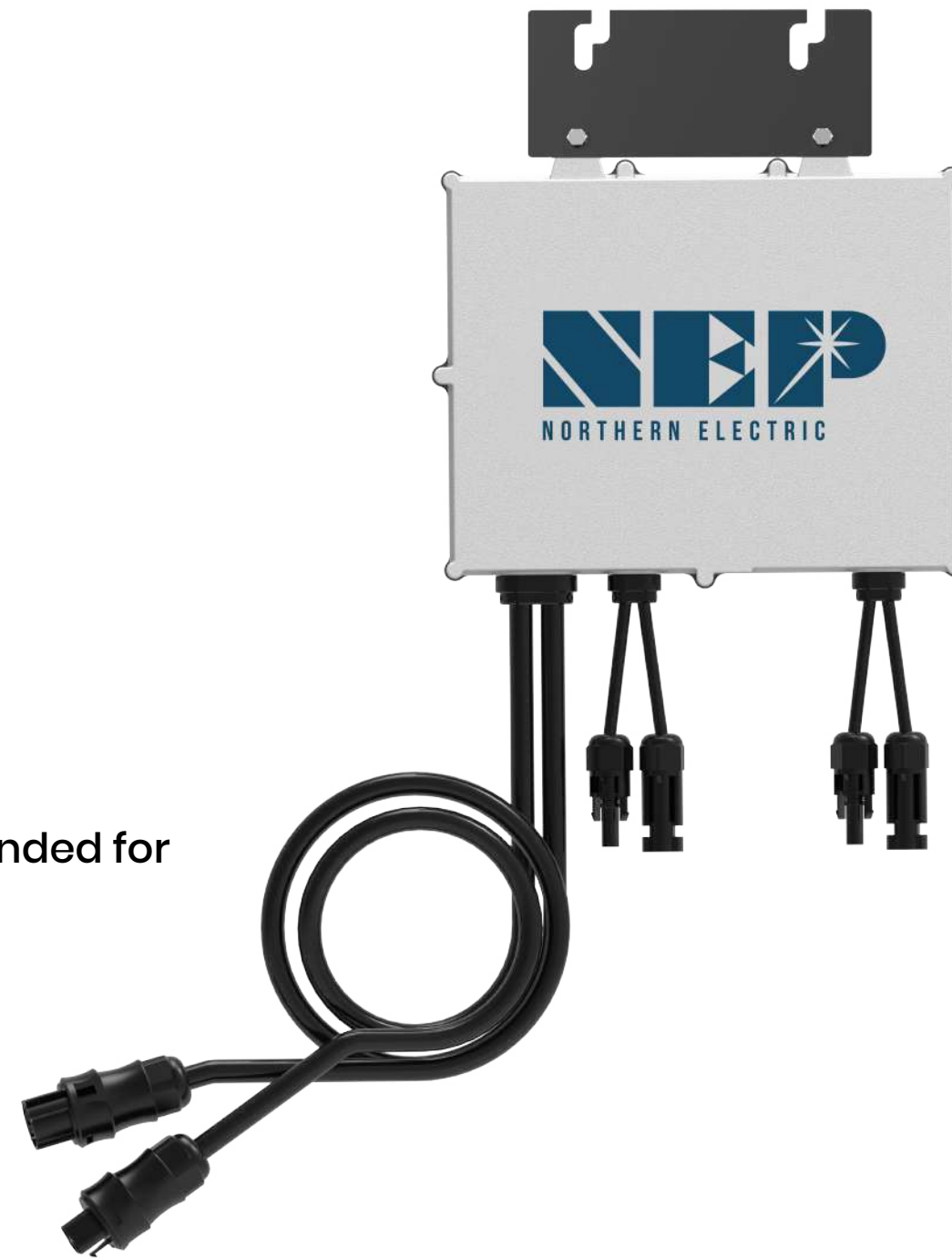
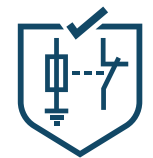


BDM-800 MICROINVERTER

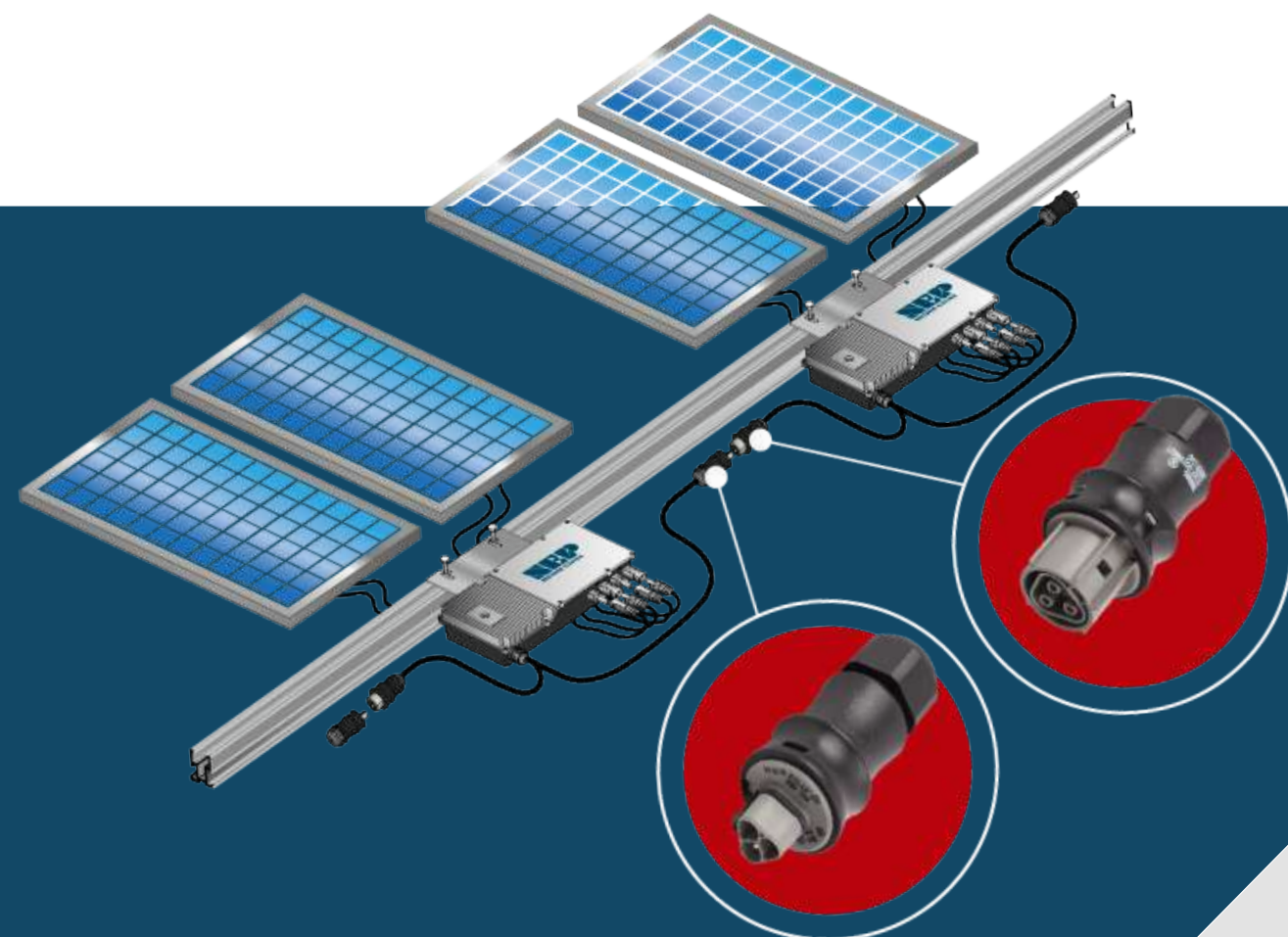
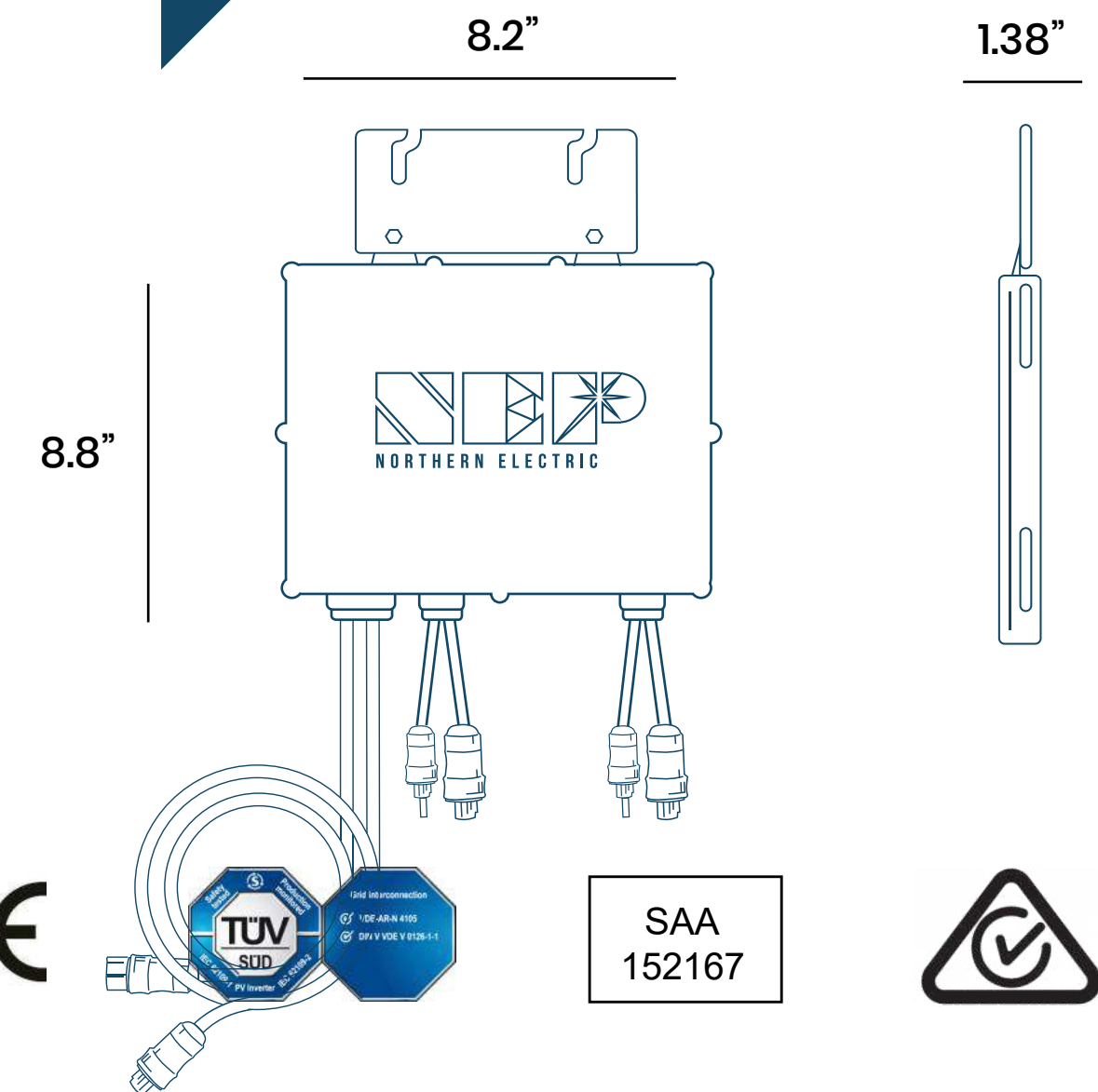
Features



- U.S. California Rule 21 Certified
- Low cost \$/watt micro inverter
- High continuous output power up to 768Wac, recommended for dual max 600W solar panel
- High efficiency with 96.5% CEC
- Globally certified for UL1741, SAA, TUV, VDE-AR-N 4105, VDE 0126, 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-1600, BDM-600 (aka BDM-300X2), BDM300 and BDM-250

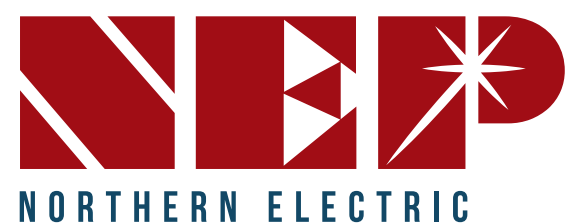


northernep.com



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 MICROINVERTER



INPUT(DC)

Max Recommended PV Power (Wp)	1200		
Max DC Open Circuit Voltage (Vdc)	60		
Max DC Input Current (Adc)	17 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		

OUTPUT (AC)

Peak AC Output Power (Wp)	800		
Rated AC Output Power (Wp)	768	700	750
Nominal Power Grid Voltage (Vac)	240	208	230
Allowable Power Grid Voltage (Vac)	211-264*	183-228*	configurable*
Allowable Power Grid Frequency (Hz)	59.3 - 60.5*		configurable*
THD	<3% (at rated power)		
Power Factor (cos phi, fixed)	-0.99>0.9 (adjustable)		0.8un>0.8ov
Rated Output Current (Aac)	3.2	3.36	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	5	5

SYSTEM EFFICIENCY

Weighted Averaged Efficiency (CEC)	96.50%		
Night Time Rate Loss (Wp)	0.11		

PROTECTION FUNCTIONS

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)	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		
Overvoltage Category	II(PV), III (AC MAINS)		

Product Safety Compliance	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	VDE-AR-N 4105* VDE V 0126-1-1/A1 AS 4777.2 & AS TOR Erzeuger Typ A
--	-----------	---

* 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 2020 Section 690.11 DC Arc-Fault Circuit Protection

*NEC 2020 Section 690.12 Rapid Shutdown of PV Systems on Buildings

*NEC 2020 Section 705.12 Point of Connection (AC Arc-Fault Protection)