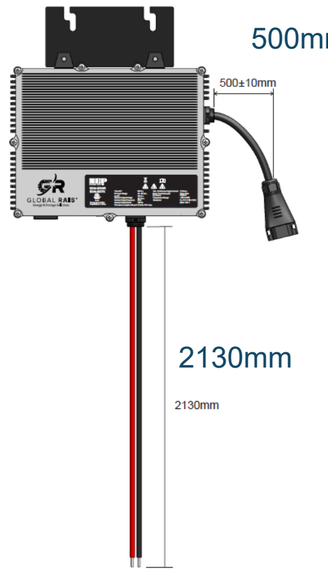
NORTHERN ELECTRIC

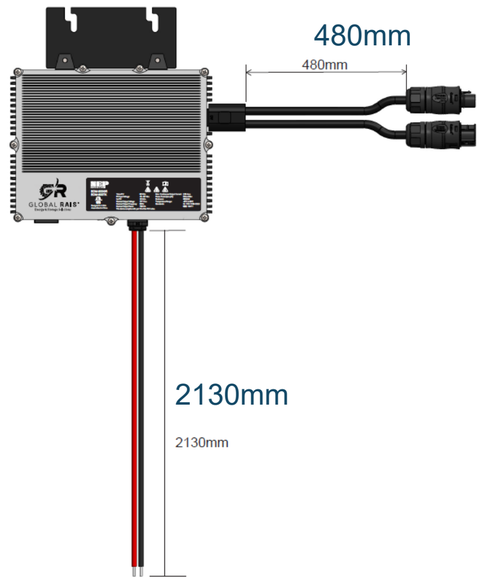
BDM-800GR MICROINVERTER

NEP Part Name
BDM-800GR-277
BDM-800GR-208/240



BDM-800TK MICROINVERTER

NEP Part Name
BDM-800TK-277
BDM-800TK-208/240



cable lengths
+-10mm
estimate

northernep.com

Features

- U.S. California Rule 21 Certified
- High performance, application specific design
- Continuous output 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
- Designed for Global RAIS® (TenK)solar panels

C ETL LISTED US
Intertek
4005622

SAA
152167

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.

2024-08-28

NORTHERN ELECTRIC

BDM-800GR
BDM-800TK

MICROINVERTER

INPUT(DC)	Max Recommended PV Power (Wp)	1200		
	Max DC Open Circuit Voltage (Vdc)	60		
	Max DC Input Current (Adc)	20		
	Isc PV (absolute maximum) (Adc)	30		
	Maximum Inverter Backfeed Current to the Array (Adc)	0		
OUTPUT (AC)	Max AC Output Power (Wp)	800		
	Nominal Power Grid Voltage (Vac)	240	208	277
	Allowable Power Grid Voltage (Vac)	configurable*		
	Allowable Power Grid Frequency (Hz)	60 / configurable*		
	THD	<3% (at rated power)		
	Power Factor (cos phi, fixed)	0.8un>0.8ov		
	Rated Output Current (Aac)	3.2	3.85	2.89
	Current (inrush)(Peak and Duration)	9.4A, 15us		
	Nominal Frequency (Hz)	60		
	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
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		
	Comunications	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 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)