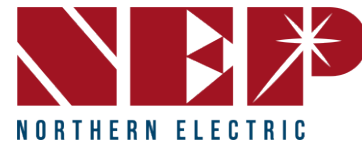
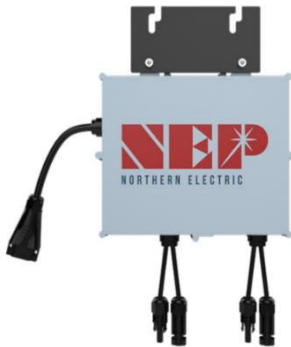


PRODUCT DATASHEET

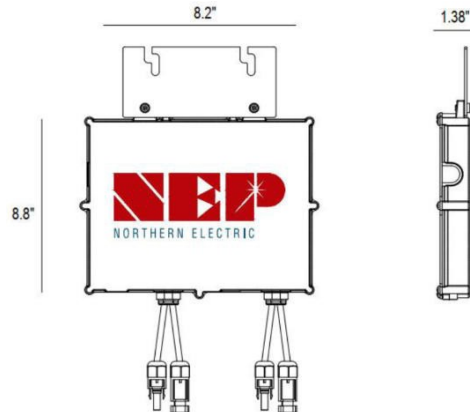


BDM-800 MICROINVERTER

(NC0136-US-T)



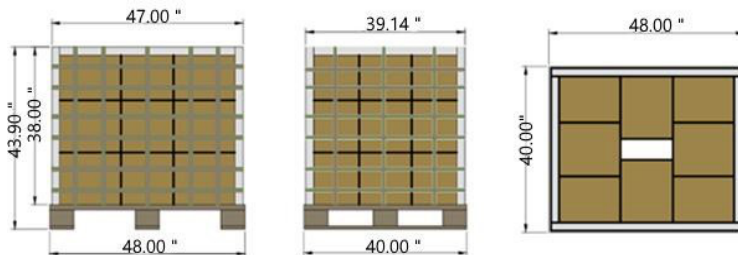
STANDARD DIMENSIONS



Weight: 6.4 lbs. (2.9 kg)

Product Safety Compliance

UL 1741-SA, UL 1741-SB, CSA C22.2, NO 107.1, IEC/EN 62109-1, IEC/EN 62109-2
Grid Code Compliance (Refer to the label for detailed information)
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



Per box: 7 pcs
Boxes per layer: 8
Layers: 3

Pallet Qty: 168 pcs
Pallet weight: 1072 lbs.

SPECIFICATIONS

Input (DC)

Recommended Max PV Power:	650 W x 2
Max DC Open Circuit Voltage:	60 Vdc
Max DC Input Current:	17 A x 2
Max Isc Current:	25 A x 2
MPPT Tracking Accuracy:	> 99%
MPPT Tracking Range:	22 – 55 Vdc
Maximum Backfeed Current to Array:	0 A

Output (AC)

Peak AC Output Power:	800 W
Max Continuous Output Power:	768 W 3φ: 700 W 3φ: 800 W
Nominal Power Grid Voltage:	240 Vac 3φ: 208 Vac 3φ: 480Y/277 Vac
Allowable Power Grid Voltage:	21 1-264Vac 3φ: 183-228 Vac 3φ: 243-305Vac
Rated Output Current:	3.2A 3φ: 3.36 A 3φ: 2.89A
Maximum Units Per Branch	
12A WG (20A):	5 units 3φ: 4 units/phase 3φ: 5 units/phase
Maximum Units Per Branch	
10AWG (30A):	7 units 3φ: 7 units/phase 3φ: 8 units/phase
(All NEC adjustment factors considered)	
Allowable Power Grid Frequency:	59.3 - 60.5 Hz
THD:	< 5% (at rated power)
Power Factor (cos phi, fixed):	0.9un ~ 0.9ov (adjustable)
Current (inrush) (Peak and Duration):	9.4 A Peak / 15us
Nominal Frequency:	60 Hz
Max Output Fault Current:	9.6 A Peak / 10ms
Max Output Overcurrent Protection:	10A

System Efficiency

Weighted Average Efficiency (CEC):	96.5%
Nighttime Tare Loss:	0.11 W

Protection Function

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:	PLC/WiFi
Environment Category:	Indoor and outdoor
Wet Location:	Suitable
Pollution Degree:	PD 3
Over Voltage Category:	II(PV), III (AC MAINS)

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 2023 Section 690.11 DC Arc-Fault Circuit Protection
- ☒ NEC 2023 Section 690.12 Rapid Shutdown of PV Systems on Buildings
- ☒ NEC 2023 Section 690.33 Mating Connectors
- ☒ NEC 2023 Section 705.12 Point of Connection (AC Arc-Fault Protection)