

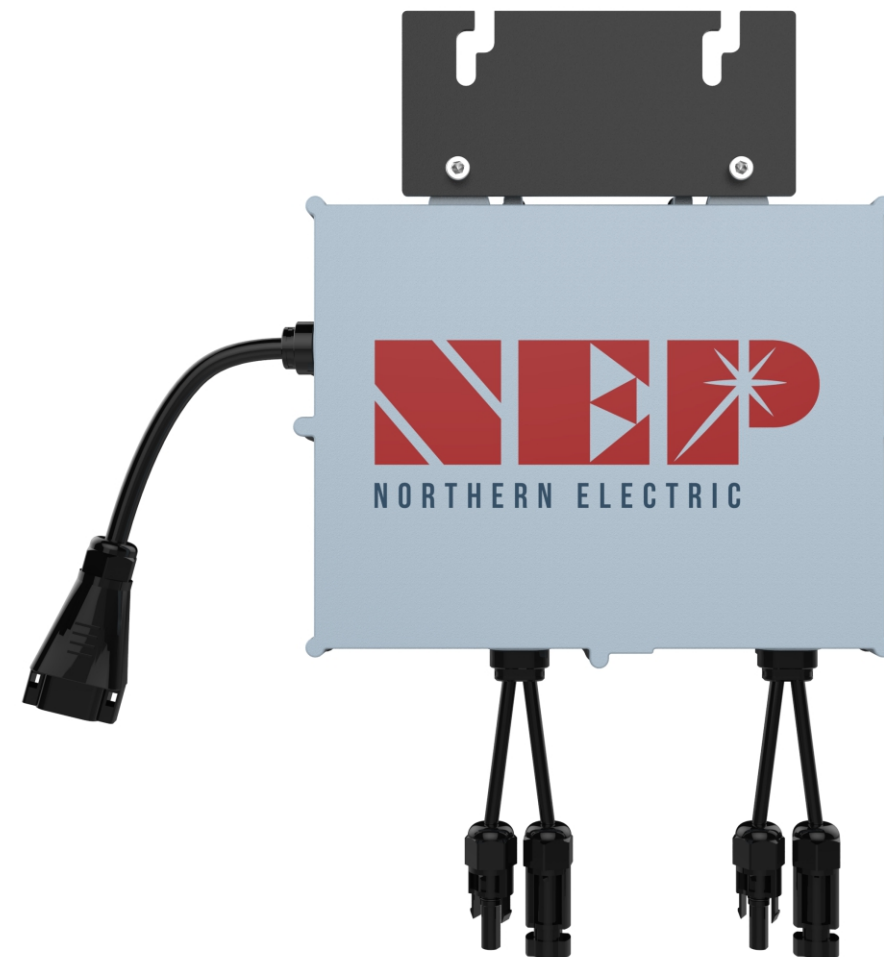


## BDM-550 MICROINVERTER

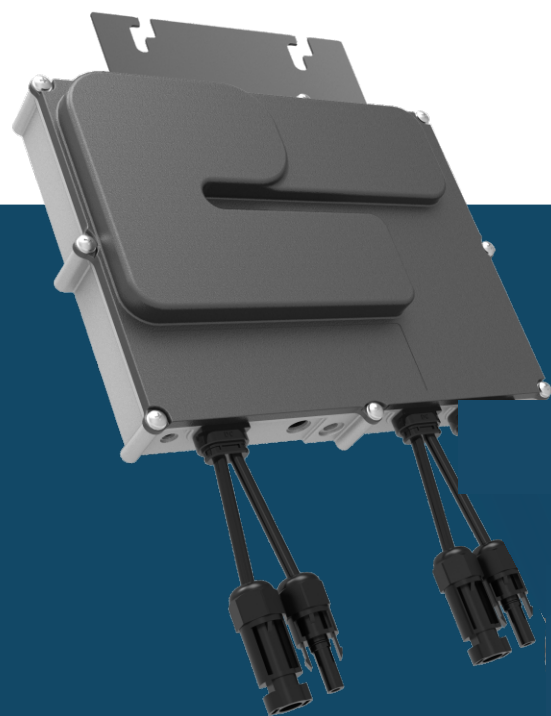


### Features

- US.California Rule 21 Certified
- Low cost \$/watt micro inverter
- High continuous output power up to 548 Wac, recommended for dual max 450W solar panel
- High efficiency with 96.5% CEC
- Globally certified for UL1741, SAA, TUV, VDE-AR-N 4105, VDE 0126, G83/2, CEL 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 BDG-256 gateway
- Can connect with BDM-1600, BDM-1000, BDM-600 (aka BDM-300X2), BDM300 and BDM-250

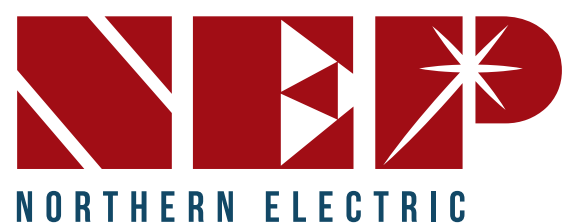


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### Important product information

- NEP is committed to developing Clean, Affordable, Efficient and Reliable (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-550 MICROINVERTER



## INPUT(DC)

Recommended Max PV Power (Wp)	450*2	
Max DC Open Circuit Voltage (Vdc)	60	
Max DC Input Current (Adc)	15.2	
MPPT Tracking Accuracy	>99.5%	
MPPT Tracking Range (Vdc)	22-55	
Isc PV (absolute maximum) (Adc)	20*2	
Maximum Inverter Backfeed Current to the Array (Adc)	0	

## OUTPUT (AC)

Peak AC Output Power (Wp)	550	
Rated AC Output Power (Wp)	548	548
Nominal Power Grid Voltage (Vac)	240	208
Allowable Power Grid Voltage (Vac)	211-264*	183-228*
Allowable Power Grid Frequency (Hz)	59.3-60.5*	
THD	>3% (at rated power)	
Power Factor (cos phi, fixed)	-0.99>0.9 (adjustable)	
Rated Output Current (Aac)	2.28	2.63
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)	20	
Maximum Number of Units Per Branch (20A) (All NEC adjustment factors have been considered)	7	6

## SYSTEM EFFICIENCY

Weighted Averaged Efficiency (CEC)	96.5 %	
Night Time Tare Loss (Wp)	.11	
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)	

## PROTECTION FUNCTIONS

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 G83/2, CEI 021 AS 4777.2 & AS 4777.3, EN50438 ABNT NBR 16149/16150

\* 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)  
\*Rule- 21 Certified  
\*HECO Certified  
\*UL1741 SB