

BDM-500 MACROINVERTER

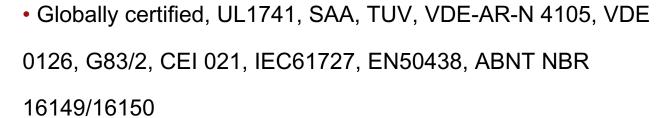
Features



High continuous output power up to 500Wac,
 recommended for max 750W solar panel



• High efficiency with 95.5% CEC





• Integrated grounding and AC cable for easy installation



NEMA-6/IP-66/IP-67 enclosure rating

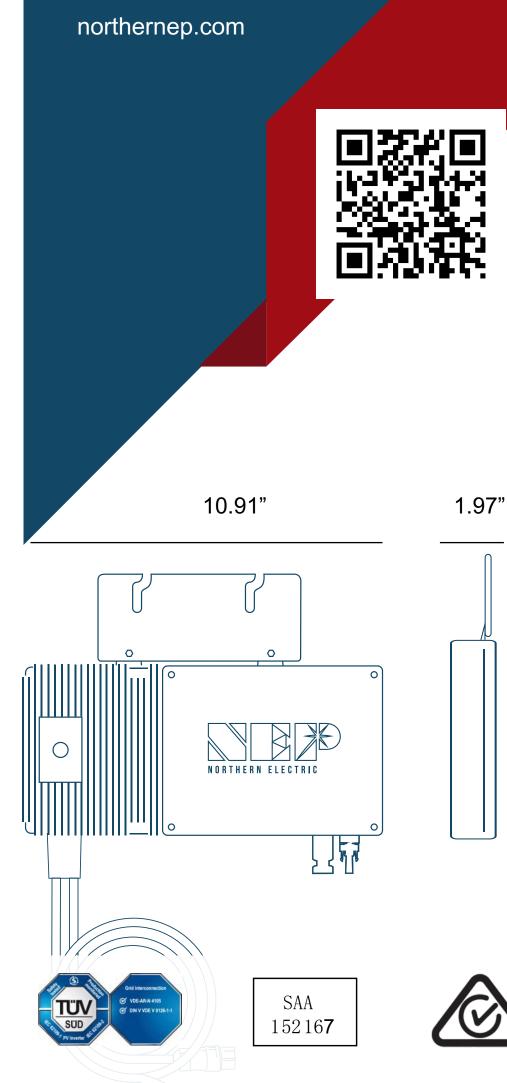


MC4 and TS4 DC input connector options



• Can connect with BDM-300, BDM-250 and BDM-300X2



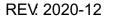


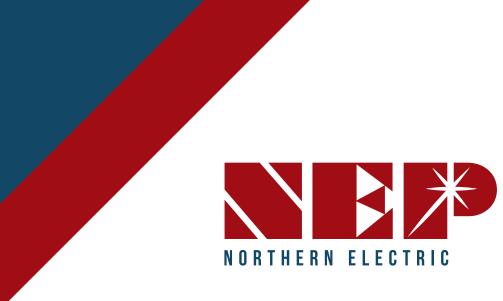
Important product information

•NEP is committed to developing Clean, Reliable, Convenient and Efficient (CARE) products for our customers worldwide. Our products have a 10-year warranty.

•NEP microinverters have an isolation transformer and basic isolation between the DC input and the AC output network.







BDM-500 MACROINVERTER



- * 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

NEC 2014/2017/2020 COMPLIANCE

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

INPUT(DC)	Max Recommended PV Power (Wp)		750		
	Max DC Open Circuit Voltage (Vdc)		60		
	Max DC Input Current (Adc)		15.5		
	MPPT Tracking Accuracy		>99.5%		
	MPPT Tracking Range (Vdc)		35 - 55		
	Isc PV (absolute maximum) (Adc)		14		
	Maximum Inverter Backfeed Current to the Array (Adc)		0		
OUTPUT (AC)	Rated AC Output Power (Wp)		500		
	Nominal Power Grid Voltage (Vac)	240	208	230	
	Allowable Power Grid Voltage (Vac)	211-264*	183-229*	180-270*	
	Allowable Power Grid Frequency (Hz)		59.3 a 60.5*		
	THD	<3%	<3% (at rated power)		
	Power Factor (cos phi, fixed)		>0.99 (at rated power)		
	Rated Output Current (Aac)	2.08	2.40	2.17	
	Current (inrush)(Peak and Duration)	2.00	24A, 15us	2.11	
	Nominal Frequency (Hz)	6	60	50	
	Maximum Output Fault Current (Aac)				
			4.4A peak		
	Maximum Output Overcurrent Protection (Aac)		10	<u> </u>	
	Maximum Number of Units Per Branch (20A) (All NEC adjustment factors have been considered)	7	6	6	
SYSTEM EFFICIENCY	Weighted Averaged Efficiency (CEC)		95.50%		
	Night Time Tare 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	NE	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	10110	LED LIGHT		
	Comunications		Power Line		
	Dimension (W-H-D)	10 01"v5 20	10.91"x5.20"x1.97"(277x132x50 mm)		
	Weight (including AC cable)		8.8 lbs. (4.0 kg)		
			`		
	Environment Category Wet Location	l II	Indoor and outdoor		
	Wet Location Pollution Dograd		Suitable PD 3		
	Pollution Degree	II/D			
	Overvoltage Category	II(P	II(PV), III (AC MAINS)		
	Product Safety Compliance	UL 174	UL 1741 CSA C22.2 No 107.1		
	Grid Code Compliance* (Refer to the label for the detailed grid code compliance)		IEEE 1547		