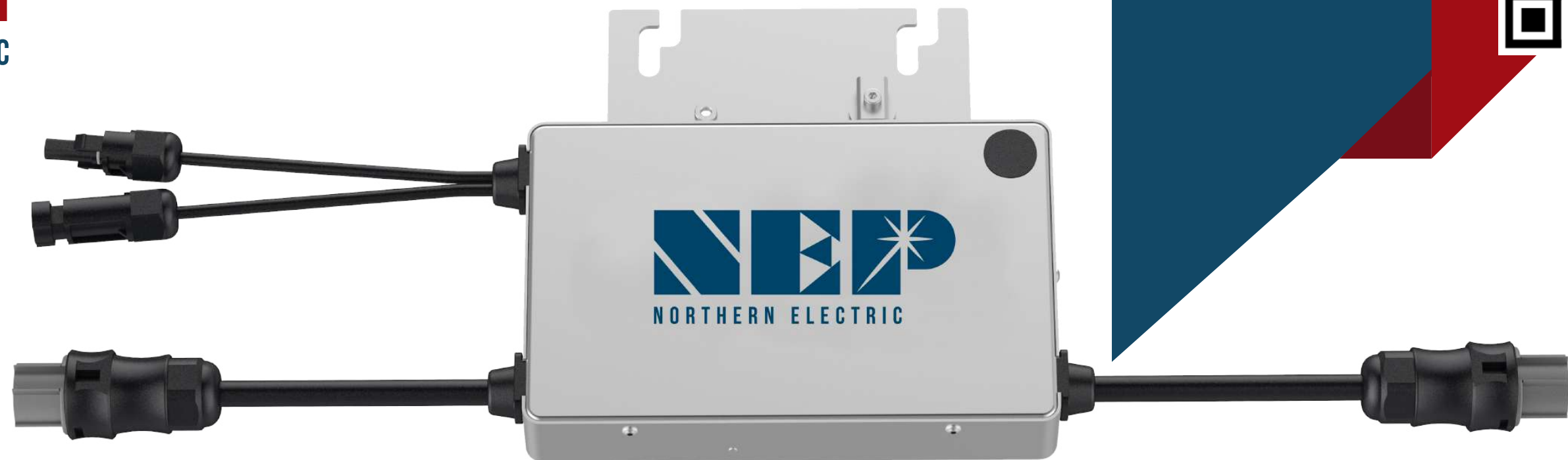




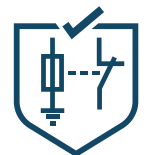
northernep.com



BDM 250-LV MICROINVERTER



Features

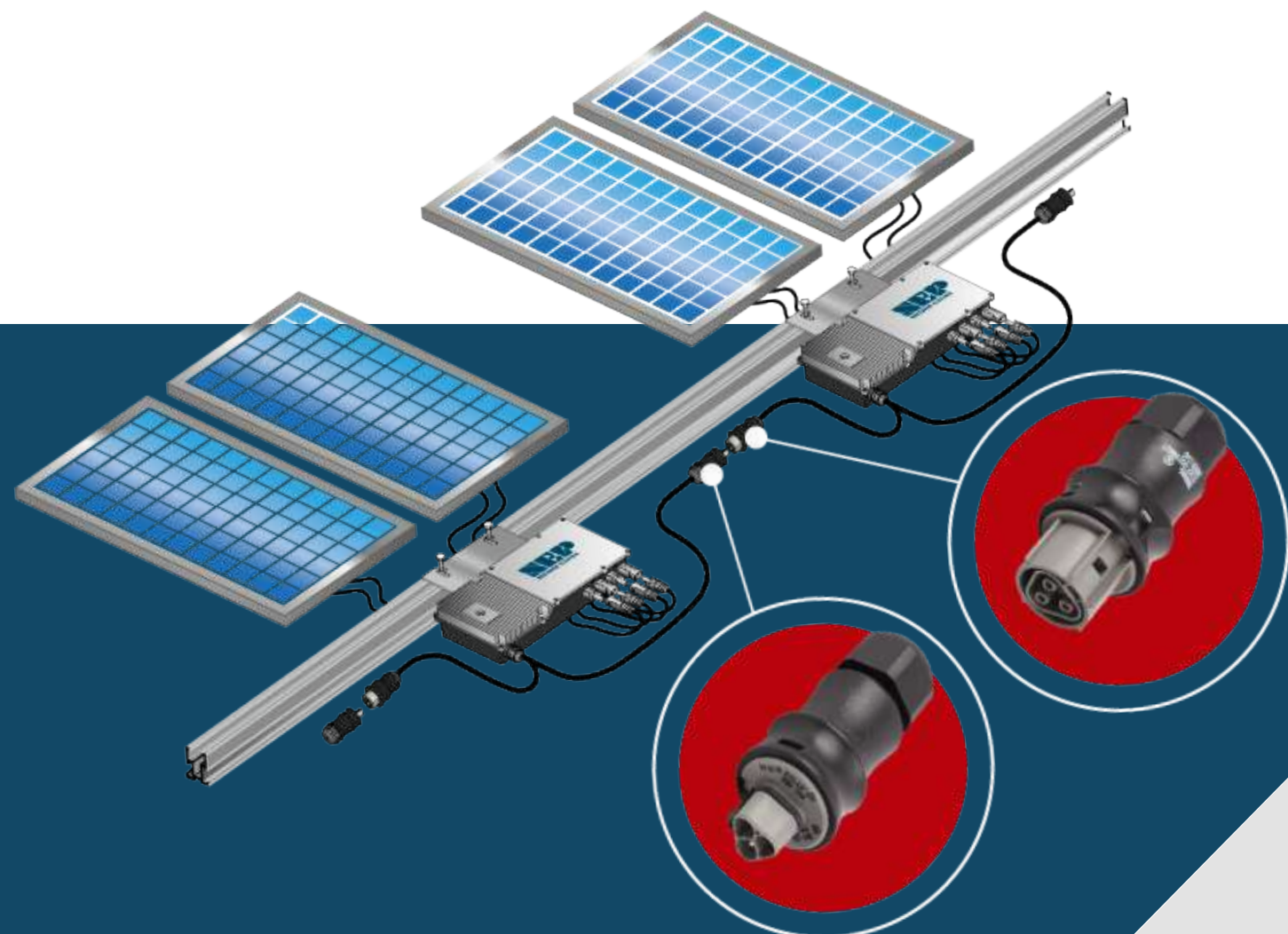
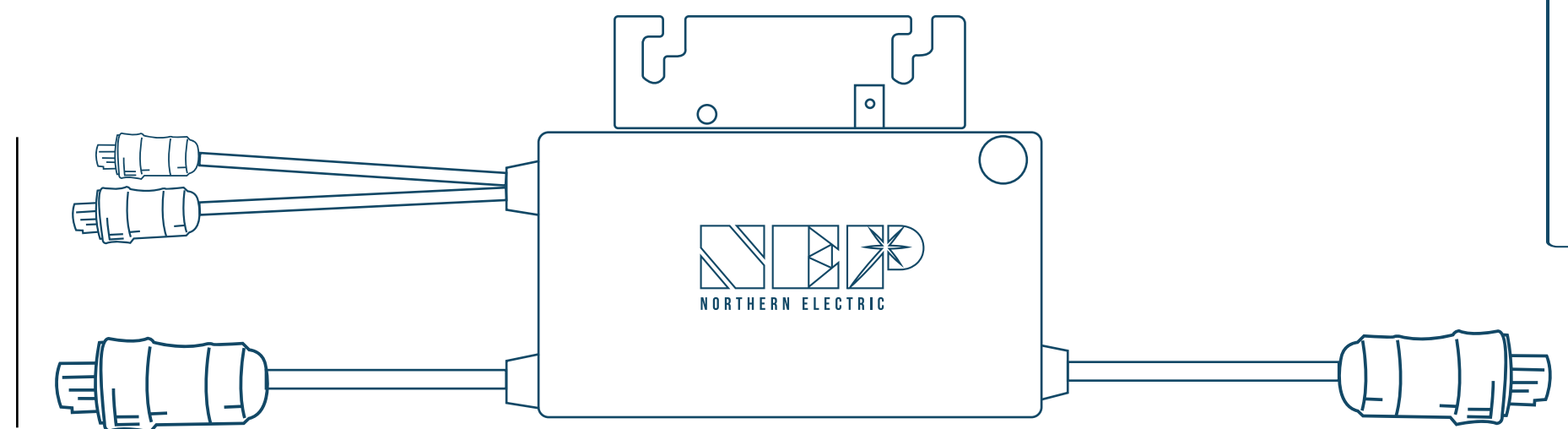


- Designed for single phase AC for North America (120 Vac)
- Designed to connect individual PV modules and perform DC to AC conversion
- Very simple installation with built-in cables and connectors
- NEMA-6/IP-66/IP-67 enclosure rating
- Integrated monitoring and power line communication with BDG-256 gateway
- Integrated GFDI
- Integrated AC cables

5.20"

10.91"

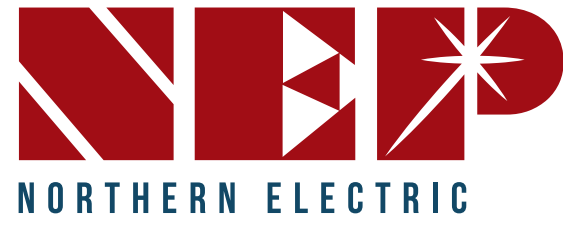
1.97"



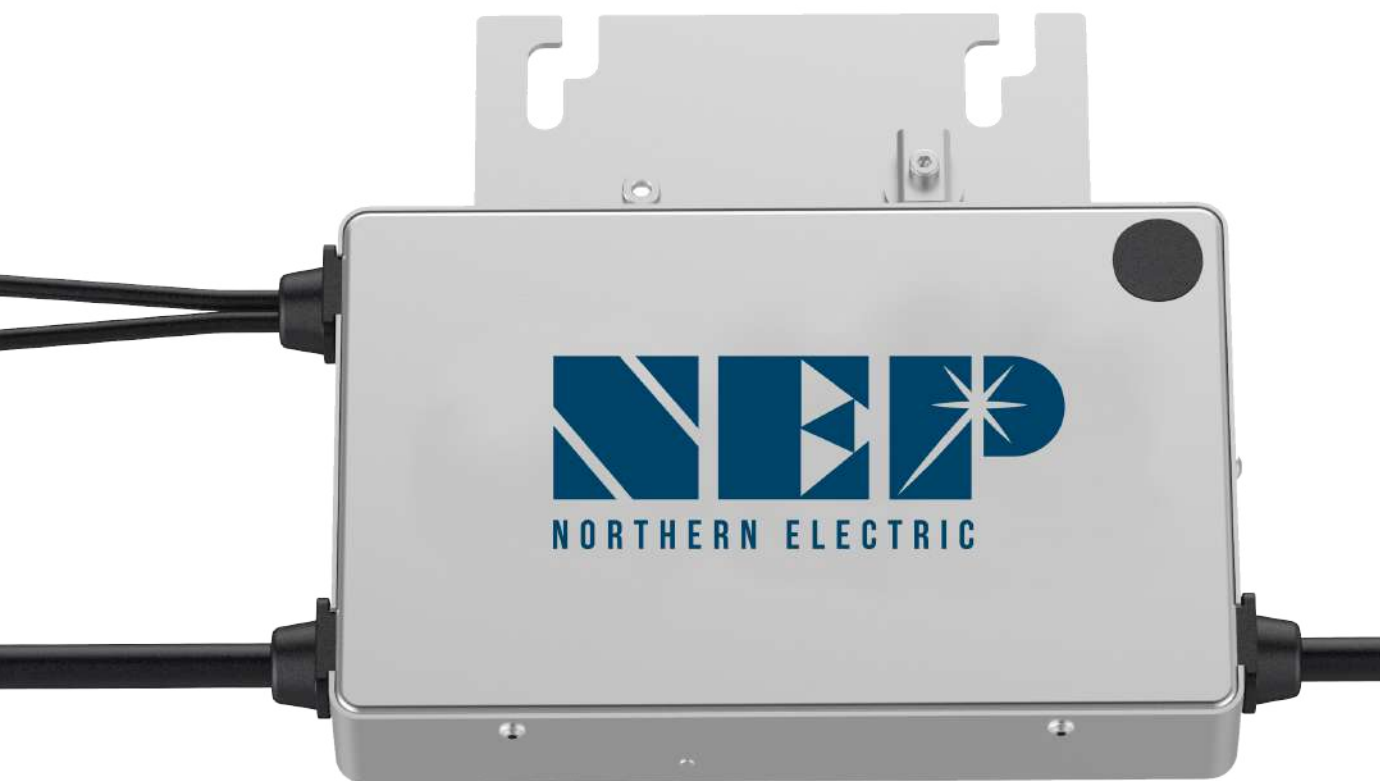
Important product information

- 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 250-LV MICROINVERTER



INPUT(DC)

OUTPUT (AC)

SYSTEM EFFICIENCY

PROTECTION FUNCTIONS

Max Recommended PV Power (Wp)	285
Max DC Open Circuit Voltage (Vdc)	60
Max DC Input Current (Adc)	12
MPPT Tracking Accuracy	>99.5%
MPPT Tracking Range (Vdc)	22-55
Isc PV (absolute maximum) (Adc)	14
Maximum Inverter Backfeed Current to the Array (Adc)	0
Rated AC Output Power (Wp)	220
Nominal Power Grid Voltage (Vac)	120
Allowable Power Grid Voltage (Vac)	100-140*
Allowable Power Grid Frequency (Hz)	59.3 a 60.5*
THD	<3% (at rated power)
Power Factor (cos phi, fixed)	>0.99
Rated Output Current (Aac)	1.83
Current (inrush)(Peak and Duration)	12A, 15us
Nominal Frequency (Hz)	60
Maximum Output Fault Current (Aac)	4.4A peak
Maximum Output Overcurrent Protection (Aac)	10
Maximum Number of Units Per Branch (15A circuit)	8
Weighted Averaged Efficiency (CEC)	95%
Night Time Tare Loss (Wp)	0.17
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
Environment Temperature	-40°C--65°C
Display	LED LIGHT
Communications	Power Line
Dimension (W-H-D)	230" 138°F 35 lb.
Weight (kg)	2.0
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
Grid Code Compliance* (Refer to the label for the detailed grid code compliance)	IEEE 1547

* Grid parameters are configurable through a BDG-256 or BDG-256P3 gateway

COMPLIANCE

- *NEC 2014 Section 690.11 DC Arc-Fault Circuit Protection
- *NEC 2014 Section 690.12 Rapid Shutdown of PV Systems on Buildings
- *NEC 2014 Section 705.12 Point of Connection (AC Arc-Fault Protection)