



BDM 300 – WIFI MICROINVERTER

Features



- Qualified equipment that meets Hawaiian Electric TrOV-2 and full frequency and voltage ride-through

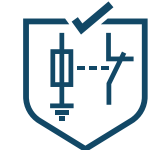


- Cable options including conventional trunk cable and daisy chain
- Thinnest micro inverter in world, 25mm in thickness

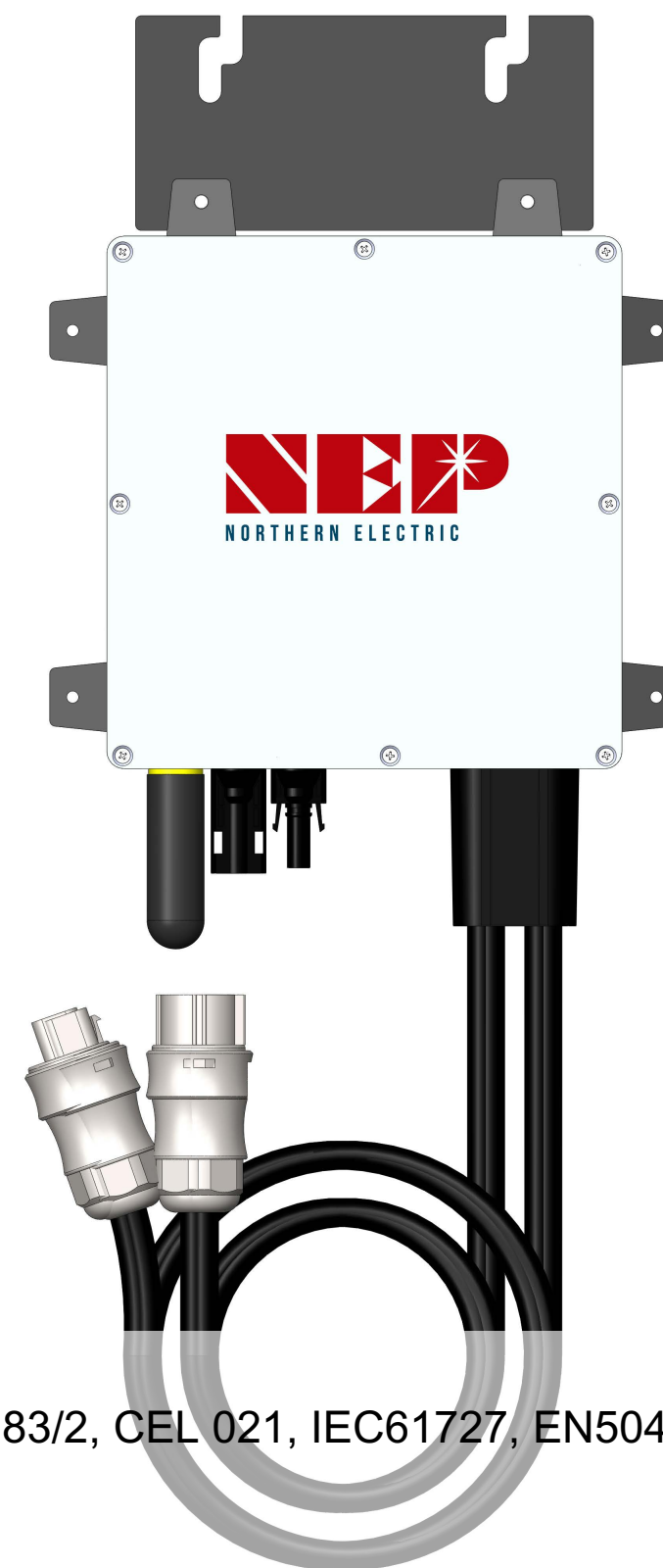
Designed for frame mount (AC module), as well as rail mount solutions 38 W solar panels



- Built-in WiFi for remote monitoring
- High efficiency with 95.5% CEC



- Globally certified for c-ETL-us, SAA, TUV, VDE-ARN-N 4105, VDE 0126 G83/2, CEL 021, IEC61727, EN50438
- Integrated grounding for easy installation
- NEMA-6/IP-66/IP-67 enclosure rating
- Mobile APP and webpage based remote monitoring
- Fully comply with NEC 2014/2017 section 690.12 Rapid Shutdown requirement. No additional equipment is required



northernep.com



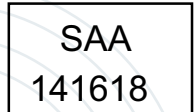
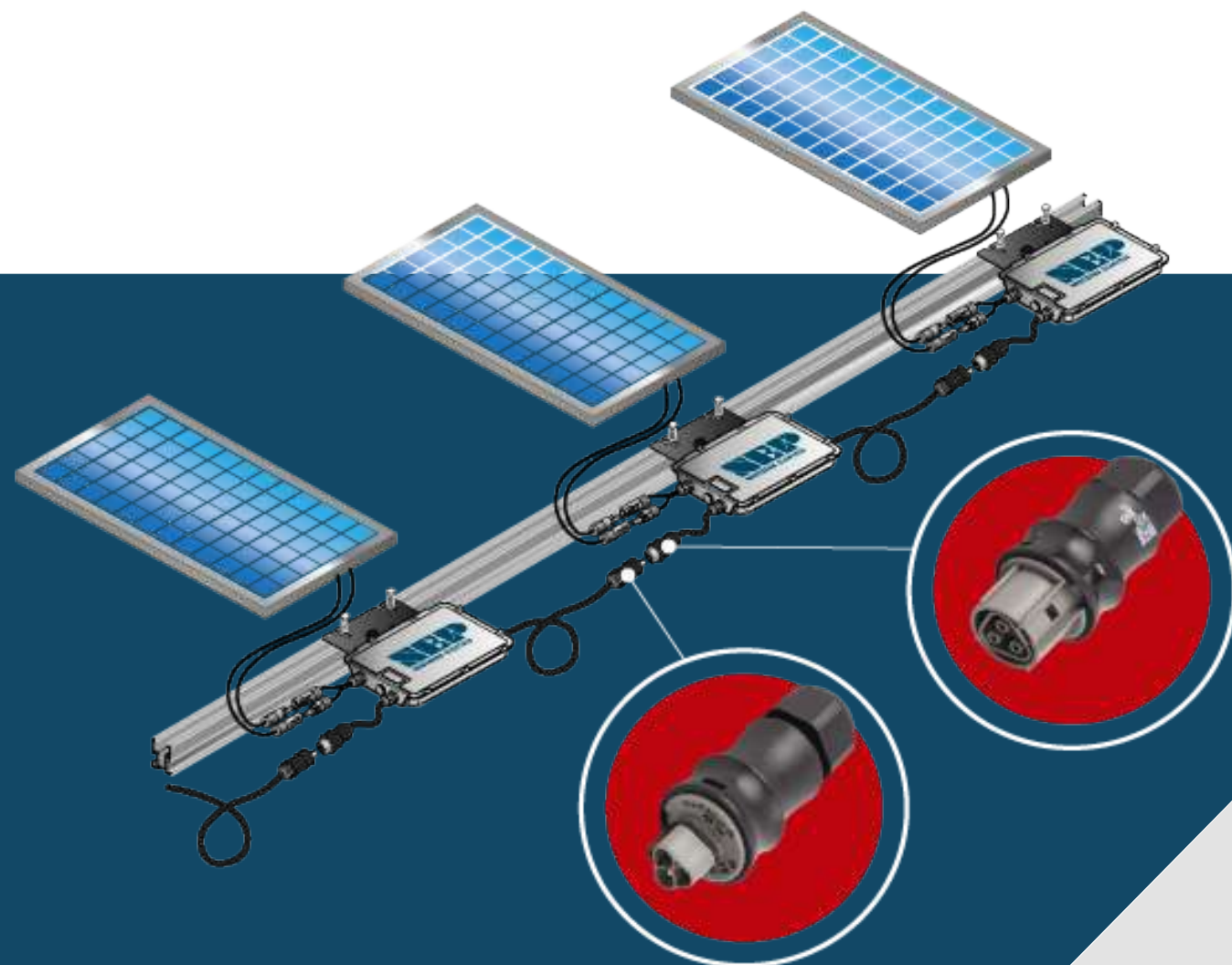
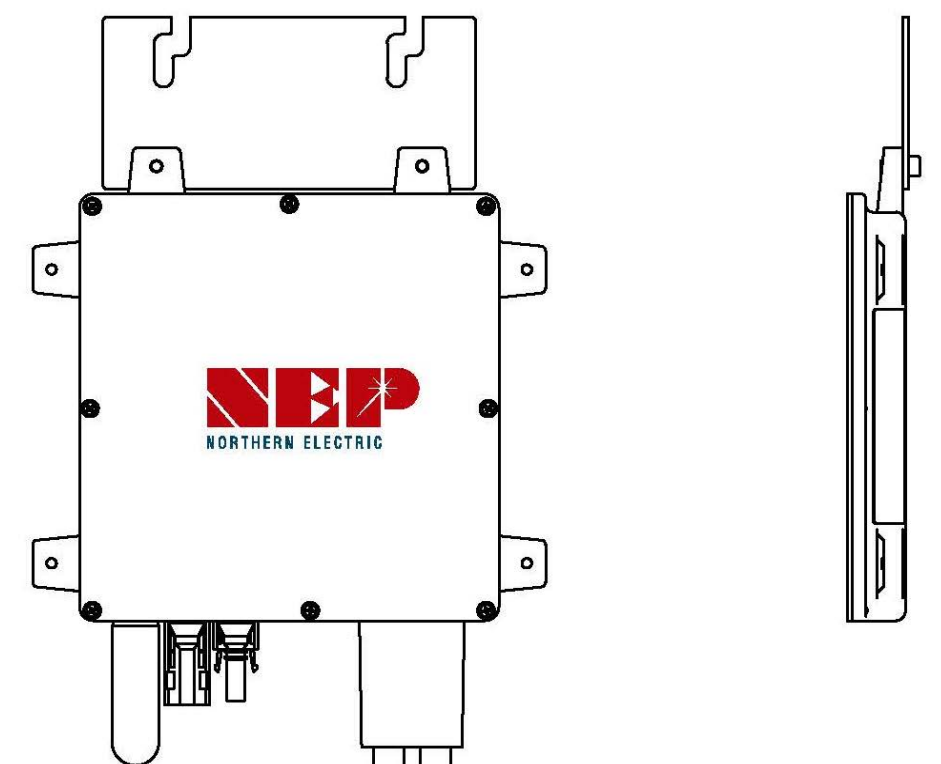
7.09"

0.98"

7.09"

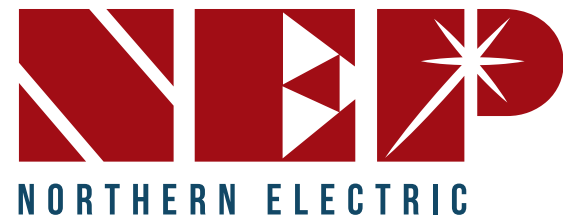
0.98"

7.32"



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.



BDM 300 MICROINVERTER



INPUT(DC)

OUTPUT (AC)

SYSTEM EFFICIENCY

PROTECTION FUNCTIONS

Recommended Max PV Power (Wp)	450		
Max DC Open Circuit Voltage (Vdc)	60		
Max DC Input Current (Adc)	14		
MPPT Tracking Accuracy	>99.5%		
MPPT Tracking Range (Vdc)	22-55		
Isc PV (absolute maximum) (Adc)	18		
Maximum Inverter Backfeed Current to the Array (Adc)	0		
Rated AC Output Power (Wp)	300		
Nominal Power Grid Voltage (Vac)	240	208	230
Allowable Power Grid Voltage (Vac)	211V-264*	183V-229*	configurable*
Allowable Power Grid Frequency (Hz)	59.3 a 60.5*		configurable*
THD	<3% (at rated power)		
Power Factor (cos phi, fixed)	>0.99 (at rated power)		
Rated Output Current (Aac)	1.25	1.44	1.30
Current (inrush)(Peak and Duration)	12A, 15us		
Nominal Frequency (Hz)	60	50	
Maximum Output Fault Current (Aac)	2.2A peak		
Maximum Output Overcurrent Protection (Aac)	6.3		
Maximum Number of Units Per Branch (20A) (All NEC adjustment factors have been considered)	15	13	14
Weighted Averaged Efficiency (CEC)	95.50%		
Night Time Tare Loss (Wp)	0.08	0.06	0.07
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 (WIFI)	Frequency:2.4Ghz Standards: IEEE 802.11/b/g/n		
Dimension (W-H-D)	7.09" x7.32" x 0.98" (180x186x25 mm)		
Weight	3.3 lbs. (1.5 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/A1 G83/2, CEI 021 AS 4777.2 & AS 4777.3,EN50438	

* 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 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)