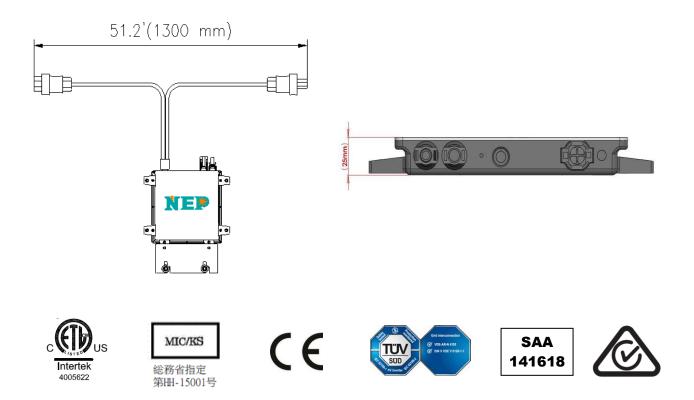


BDM-300-D Grid-tie Micro Inverter System



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
- High continuous output power up to 300Wac, recommended for max 380W solar panels
- High efficiency with 95.5% CEC
- Globally certified for c-ETL-us, SAA, TUV, VDE-AR-N 4105, VDE 0126, G83/2, CEI 021, IEC61727,EN50438
- Integrated grounding for easy installation
- NEMA-6/IP-66/IP-67 enclosure rating
- Integrated monitoring and power line communication with BDG-256 gateway



BDM-300-D Grid-tie Micro Inverter System

	MODEL		BDM-300-D		
	Recommended Max PV Power (Wp)	380			
INPUT(DC)	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			
OUTPUT(AC)	Peak AC Output Power (Wp)	300			
	Rated AC Output Power (Wp)		250		
	Nominal Power Grid Voltage (Vac)	240 208 230			
	Allowable Power Grid Voltage (Vac)	211-264*	183-229*	configurable*	
	Allowable Power Grid Frequency (Hz)	59.3-60.5* co		configurable*	
	THD	<3% (at rated power)			
	Power Factor (cos phi, fixed)	>0.99 (at rated power)			
	Rated Output Current (Aac)	1.04	1.20	1.09	
	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	
SYSTEM EFFICIENCY	Weighted Averaged Efficiency (CEC)		95.5%		
	Night Time Tare Loss (Wp)	0.08	0.06	0.07	
	Over/Under Voltage Protection	0.00	Yes	0.07	
PROTECTION FUNCTIONS	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)	7.09' x7.32' x 0.98' (180x186x25 mm)			
	Weight (including AC cable)	4.6 lbs. (2.1 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 C	22.2 No. 107.1	IEC/EN 62109-1 IEC/EN 62109-2	
	Grid Code Compliance* (Refer to the label for the detailed grid code compliance)		1547	VDE-AR-N 4105 VDE V 0126-1-1/ G83/2, CEI 021 AS 4777.2 & AS 4777.3,EN5043	
	 Grid parameters are configurable through a BDG-2 All NEC required adjustment factors have been co for Rated Output AC Current Compliance NEC 2014 Section 690.11 DC Arc-Fault Circuit Prot NEC 2014 Section 690.12 Rapid Shutdown of PV So NEC 2014 Section 705.12 Point of Connection (AC 	nsidered for AC outputs. A ection /stems on Buildings			