



## Features

- Designed for single phase AC (120 Vac)
- U.S. California Rule 21 Certified
- Low cost \$/watt micro inverter
- Built-in AC cable for easy installation
- High continuous output power up to 500Wac, recommended for dual max 340W solar panel
- High efficiency with 95.5% CEC
- Globally certified for Rule 21, UL1741, 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
- Can connect with BDM-300-LV and BDM-250-LV

# BDM-600-LV

## Grid-tie Micro Inverter System

MODEL		BDM-600-D (a.k.a. BDM-300X2-D)	
<b>INPUT(DC)</b>	Max Recommended PV Power (Wp)	340 x 2	
	Max DC Open Circuit Voltage (Vdc)	60	
	Max DC Input Current (Adc)	12 x 2	
	MPPT Tracking Accuracy	>99.5%	
	MPPT Tracking Range (Vdc)	22-55	
	Isc PV (absolute maximum) (Adc)	14 x 2	
	Maximum Inverter Backfeed Current to the Array (Adc)	0	
<b>OUTPUT(AC)</b>	Peak AC Output Power (Wp)	540	
	Rated AC Output Power (Wp)	500	
	Nominal Power Grid Voltage (Vac)	127	
	Allowable Power Grid Voltage (Vac)	100-140*	
	Allowable Power Grid Frequency (Hz)	59.3-60.5*	
	THD	<3% (at rated power)	
	Power Factor (cos phi, fixed)	>0.99%	
	Rated Output Current (Aac)	3.93	
	Current (inrush) (Peak and Duration)	24A, 15us	
	Nominal Frequency (Hz)	60	
	Maximum Output Fault Current (Aac)	8.8A peak	
	Maximum Output Overcurrent Protection (Aac)	20	
	Maximum Number of Units Per Branch (20A circuit)	4	
<b>SYSTEM EFFICIENCY</b>	Weighted Averaged Efficiency (CEC)	95.5%	
	Night Time Tare Loss (Wp)	0.11	
<b>PROTECTION FUNCTIONS</b>	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)	10.91'x5.20'x1.97' (277x132x50 mm)	
	Weight (including AC cable)	8.8 lbs. (4.0 kg)	
	Environment Category	Indoor and outdoor	
	Wet Location	Suitable	
	Pollution Degree	PD 3	
	Overvoltage Category	II(PV), III (AC MAINS)	
	Product Safety Compliance	California Rule 21 Certified 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
	<ul style="list-style-type: none"> <li>Grid parameters are configurable through a BDG-256 or BDG-256P3 gateway</li> <li>All NEC required adjustment factors have been considered for AC outputs. AC current outputs will not exceed stated values for Rated Output AC Current</li> </ul> <p>Compliance</p> <ul style="list-style-type: none"> <li>NEC 2014 Section 690.11 DC Arc-Fault Circuit Protection</li> <li>NEC 2014 Section 690.12 Rapid Shutdown of PV Systems on Buildings</li> <li>NEC 2014 Section 705.12 Point of Connection (AC Arc-Fault Protection)</li> </ul>		