



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
-

BDM-250-LV Grid-tie Micro Inverter System

	MODEL	BDM-250-LV
INPUT(DC)	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
OUTPUT(AC)	Rated AC Output Power (Wp)	220
	Nominal Power Grid Voltage (Vac)	120
	Allowable Power Grid Voltage (Vac)	100-140*
	Allowable Power Grid Frequency (Hz)	59.3-60.5*
	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)	4.2A peak
	Maximum Output Overcurrent Protection (Aac)	10
	Maximum Number of Units Per Branch (15A circuit)	8
SYSTEM EFFICIENCY	Weighted Averaged Efficiency (CEC)	95%
	Night Time Tare Loss (Wp)	0.17
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	NEMA-6 /IP-66/IP-67
	Environment Temperature	-40C — +65C
	Display	LED LIGHT
	Communications	Power Line
	Dimension (W-H-D mm)	230*138*35
	Weight (Kg)	2.0
	Environment Category	Indoor and outdoor
	Wet Location	SUITABLE
	Pollution Degree	PD 3
	Maximum Altitude	2000 M
	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
		<ul style="list-style-type: none"> • Grid parameters are configurable through a BDG-256 or BDG-256P3 gateway Compliance <ul style="list-style-type: none"> • 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)