

BDM-250

Grid-tie Micro Inverter System

| MODEL | | BDM-250-240A | BDM-250-208A | BDM-250-EU BDM-250-AU |
|-----------------------------|--|------------------------------------|--------------|--|
| INPUT(DC) | Max Recommended PV Power (Wp) | 300 | | |
| | 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) | 250 | | |
| | Rated AC Output Power (Wp) | 220 | | |
| | 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* | | Configurable* |
| | THD | <3% (at rated power) | | |
| | Power Factor (cos phi, fixed) | >0.99 (at rated power) | | |
| | Rated Output Current (Aac) | 0.92 | 1.06 | 0.96 |
| | 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 (15A) (All NEC adjustment factors have been considered) | 13 | 11 | 12 |
| | 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 | | |
| | 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) | 9.06'x5.43'x1.38' (230x138x35 mm) | | |
| | Weight (including AC cable) | 4.4 lbs. (2.0 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 AS 4777.2 & AS 4777.3, EN 50438 |
| | <ul style="list-style-type: none"> Grid parameters are configurable through a BDG-256 or BDG-256P3 gateway All NEC required adjustment factors have been considered for AC outputs. AC current outputs will not exceed stated values for Rated Output AC Current <p>Compliance</p> <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) | | | |