

Technical Specification



| Technical Data | MS1200B-G1 | MS1400B-G1 | MS1600B-G1 | MS1800B-G1 | MS2000B-G1 | MS2200B-G1 | MS2250B-G1 |
|--|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Rated Power | 1200VA/1200W | 1400VA/1400W | 1600VA/1600W | 1800VA/1800W | 2000VA/2000W | 2200VA/2200W | 2250VA/2250W |
| PV String Input Data | | | | | | | |
| Max. PV Input Power (W) | 210 - 420 (4 Pieces) | 210 - 490 (4 Pieces) | 210 - 560 (4 Pieces) | 210 - 630 (4 Pieces) | 210 - 700 (4 Pieces) | 210 - 770 (4 Pieces) | 210 - 790 (4 Pieces) |
| Max. PV Input Voltage (V) | 60 | | | | | | |
| Start-up Voltage (V) | 20 | | | | | | |
| MPPT Voltage Range (V) | 25 - 55 | | | | | | |
| Rated PV Input Voltage (V) | 42.5 | | | | | | |
| Max. Operating PV Input Current (A) | 18 + 18 + 18 + 18 | | | | | | |
| Max. Input Short Circuit Current (A) | 27 + 27 + 27 + 27 | | | | | | |
| No. of MPP Trackers/ No. of Strings MPP Tracker | 4/1 | | | | | | |
| AC Output Side | | | | | | | |
| Rated AC Output Active Power (W) | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2250 |
| Max. AC Output Apparent Power (VA) | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2250 |
| Rated AC Output Current (A) | 5.5/5.2 | 6.4/6.1 | 7.3/7 | 8.2/7.9 | 9.1/8.7 | 10/9.6 | 10.3/9.8 |
| Max. AC Output Current (A) | 5.5/5.2 | 6.4/6.1 | 7.3/7 | 8.2/7.9 | 9.1/8.7 | 10/9.6 | 10.3/9.8 |
| Rated Output Voltage/Range (V) | 220/230 0.85Un - 1.1Un | | | | | | |
| Grid Connection Form | L/N/PE | | | | | | |
| Rated Output Grid Frequency/Range (Hz) | 50/45-55, 60/55-65 | | | | | | |
| Max. Unit per Branch | 5 | 4 | 4 | 3 | 3 | 3 | 3 |
| Power Factor Adjustment Range | 0.9 leading - 0.9 lagging | | | | | | |
| Total Current Harmonic Distortion THDi | <3% | | | | | | |
| DC Injection Current | <0.5%In | | | | | | |
| Efficiency | | | | | | | |
| Max. Efficiency | 96.50% | | | | | | |
| Euro Efficiency | 96.00% | | | | | | |
| MPPT Efficiency | >99% | | | | | | |
| Equipment Protection | | | | | | | |
| DC Reverse Polarity Protection | Yes | | | | | | |
| AC Output Overcurrent Protection | Yes | | | | | | |
| AC Output Overvoltage Protection | Yes | | | | | | |
| AC Output Short Circuit Protection | Yes | | | | | | |
| Thermal Protection | Yes | | | | | | |
| Insulation Impedance Detection | Yes | | | | | | |
| Anti-island Protection Ptection | Yes | | | | | | |
| Surge Protection Level | TYPE II (AC) | | | | | | |
| General Data | | | | | | | |
| Operating Temperature Range (°C) | -40 to + 65°C, >45°C Derating | | | | | | |
| Permissible Ambient Humidity | 0 - 100% | | | | | | |
| Permissible Altitude (m) | 2000m | | | | | | |
| Noise (dB) | ≤25 | | | | | | |
| Ingress Protection(IP) Rating | IP 67 | | | | | | |
| Inverter Topology | Isolated | | | | | | |
| Over Voltage Category | OVC II(DC) ,OVC III(AC) | | | | | | |
| Communication | Wi-Fi | | | | | | |
| Cabinet Size (WxHxD) (mm) | 314.3*269.8*40.3 (Excluding Connectors and Brackets) | | | | | | |
| Weight (kg) | 5 | | | | | | |
| Warranty | 10 Years | | | | | | |
| Type of Cooling | Natural Cooling | | | | | | |
| Grid Regulation | IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G98,G99, VDE-AR-N 4105 | | | | | | |
| Safety EMC/Standard | IEC/EN 61000-6-1/2/3/4, IEC /EN 62109-1, IEC/EN 62109-2 | | | | | | |

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