
Master Power Beta 5K-4G

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Features:

- ▶ 4G Single Phase Range
- ▶ High frequency switching technology - Smaller, smarter
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ Intergrated Export Power Manager(EPM)
- ▶ Over 98.1% Max. efficiency
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-Android and Apple App store available



Model:

MP-Beta-5k-4G

Datasheet

| Model Name | MP-Beta 5K-4G |
|--|--|
| Input DC | |
| Max. DC input power(kW) | 5.8 |
| Max. DC input voltage(V) | 600 |
| Start-up voltage(V) | 120 |
| MPPT voltage range(V) | 90-520 |
| Max. input current(A/B) | 11A+11A |
| Max. Short Circuit current for each MPPT | 17.2A+17.2A |
| MPPT number/Max input strings number | 2/A:1; B:1 |
| Output AC | |
| Rated output power(kW) | 5 |
| Max. apparent output power(kVA) | 5 |
| Max. output power(kW) | 5 |
| Rated grid voltage(V) | 220/230 |
| Rated grid frequency(Hz) | 50/60 |
| Grid frequency range(Hz) | 47-52 or 57-62 |
| Operation phase | Single Phase |
| Rated grid output current(A) | 22.7/21.7 |
| Max. output current(A) | 25A (21.7 for AUS) |
| Power Factor (at rated output power) | 0.8leading ... 0.8lagging |
| THDi (at rated output power) | <3% |
| DC Injection current | <0.5%In |
| Efficiency | |
| Max. efficiency | 98.1% |
| EU efficiency | 97.3% |
| MPPT efficiency | >99.5% |
| Protection | |
| DC reverse-polarity protection | Yes |
| Short circuit protection | Yes |
| Output over current protection | Yes |
| Output over voltage protection | Yes |
| Insulation resistance monitoring | Yes |
| Residual current detection | Yes |
| Surge protection | Yes |
| Grid monitoring | Yes |
| Islanding protection | Yes |
| Temperature protection | Yes |
| Integrated DC switch | Optional |
| General Data | |
| Dimensions(mm) | 310W*543H*160D |
| Weight (kg) | 11.5 |
| Topology | Transformer less |
| Self consumption (night) | <1W (Night) |
| Operating ambient temperature range | -25~60°C |
| Relative humidity | 0~100% |
| Ingress protection | IP65 |
| Noise emission(typical) | <20dBA |
| Cooling concept | Natural convection |
| Max. operation altitude | 4000m |
| Designed lifetime | >20 years |
| Grid connection standard | EN50438, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105, G98, G99 |
| Safty/EMC standard | IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3 |
| Features | |
| DC connection | MC4 |
| AC connection | IP67 rated plug |
| Display | LCD, 2×20 Z. |
| Communication connections | 4 pins RS485 connector |
| Monitoring | WiFi or GPRS |
| Warranty | 5/ 10/ 15/ 20 Years |