

HYBRID SOLAR INVERTER

5000W ~ 6000W



FEATURES

- ◆ Pure sine wave solar inverter.
- ◆ Output power factor 0.99.
- ◆ Parallel operation up to 10 units.
- ◆ High PV input voltage range.
- ◆ Battery independent design.
- ◆ Built-in 100A MPPT solar charger and anti-dusk kit for harsh environment.
- ◆ Battery equalization function to optimize battery performance and extend lifecycle.

Technical Data

| INPUT (PV DC) | MGSP 5000W | MGSP 6000W |
|---|-------------------------------------|------------------|
| Max. PV array power(W) | 8000 (4000/4000) | 8000 (4000/4000) |
| Rated PV input voltage(V) | | 320 |
| Number of independent MPPT inputs | | 2 |
| PV input voltage range(V) | | 100~480 |
| MPPT voltage range(V) | | 120~385 |
| Start-up voltage(V) | | 100 |
| Max. PV input current per MPPT(A) | | 17/17 |
| Max. PV short-circuit current input per MPPT(A) | | 25/25 |
| Battery | | |
| Compatible battery type | Lithium-ion/Lead-Acid | |
| Rated battery voltage(V) | 48 | |
| Battery voltage range(V) | 38.4~60 | |
| Max. charging/discharging current(A) | 110 | 140 |
| Max. discharging/discharging power(W) | 5000 | 6000 |
| Recomand capacity of battery per inverter | >200AH | >200AH |
| Force wake up battery from PV function | YES | |
| Force wake up battery from Grid function | YES | |
| Grid | | |
| Rated AC voltage(V) | 230 | |
| Rated AC frequency(Hz) | 50/60 | |
| Rated AC output current(A) | 22 | 26.5 |
| Rated AC output power(W) | 5000 | 6000 |
| Max. AC input current(A) | 35 | 39.5 |
| Max. AC input power(W) | 9000 | 9000 |
| PF | 0.99 | |
| THDI | <5% | |
| Rated AC current of BYPASS relays(A) | 40 | |
| UPS | | |
| Rated output power(W) | 5000 | 6000 |
| Rated output voltage(V) | 230 | |
| Rated output current(A) | 22 | 26.5 |
| Rated output frequency(Hz) | 50/60 | |
| Surge power, duration | 2Pn, <2S | |
| Switching time | <15ms@Single/ <30ms@Parallel | |
| Wave form | Sine wave | |
| THDV | 0.03 | |
| Efficiency | | |
| Max. MPPT efficiency | 0.99 | |
| Max. efficiency | 0.93 | |
| EU efficiency | / | |
| Max. charging efficiency | 0.93 | |
| Max. discharging efficiency | 0.93 | |
| Protection | | |
| Over current/voltage protection | YES | |
| AC Short-circuit current protection | YES | |
| Grid monitoring | YES | |
| AC Surge protection Type III | YES | |
| Battery reverse polarity protection | YES | |
| General | | |
| Dimensions(W*H*D) | 303*505*135mm/11.9*19.9*5.3inch | |
| Weight | 14.5kg/32lbs | |
| Ingress protection rating | IP20 | |
| Operating environment temperature range | 0~50°C | |
| Storage temperature range | -15~60°C | |
| Relative humidity | 5%~95% | |
| Display & Communication interface | LCD+LED, RS485/Wi-Fi/CAN | |
| Warranty | 2 Years | |
| Cooling method | FAN | |
| Topology | Transformer-less | |
| Altitude | <2000m | |
| Noise emission(typical) | <50dB | |
| Standards & Certification | IEC 62109-1, IEC 62109-2, IEC 61000 | |

Product specifications are subject to change without prior notice.