

24/7 Solar & Battery

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SH8.0/10RS

Residential Hybrid Single Phase Inverter



FULL BACKUP

- Built-in 63A bypass for full house backup
- 10ms seamless switch
- Peak output up to 13680VA(10s) in backup mode



FLEXIBLE APPLICATION

- Up to 200% PV input with 4 MPPTs
- 50A fast charge / discharge current
- VPP Ready



FRIENDLY INSTALLATION

- Plug & Play installation
- Free online monitoring to enhance energy management



SAFE AND DURABLE

- Support precise AFCI
- IP65/C5



| Type designation | SH8.0RS | SH10RS |
|---|--|------------------|
| Input (DC) | | |
| Recommended max. PV input power | 16000 Wp | 20000 Wp |
| Max. PV input voltage | 600 V | |
| Min. PV input voltage / Startup input voltage | 40 V / 50 V | |
| Rated PV input voltage | 360 V | |
| MPPT voltage range* | 40 V – 560 V | |
| No. of independent MPP trackers | 4 | |
| No. of PV strings per MPPT | 1 / 1 / 1 / 1 | |
| Max. PV input current | 64 A (16 A / 16 A / 16 A / 16 A) | |
| Max. DC short-circuit current | 80 A (20 A / 20 A / 20 A / 20 A) | |
| Battery data | | |
| Battery type | Li-ion battery | |
| Battery voltage range | 80 V – 460 V | |
| Max. charge / discharge current | 50 A ** / 50 A ** | |
| Max. charge / discharge power | 10000 W / 10000 W | |
| Input and output (AC) | | |
| Max. AC power from grid | 14500 VA*** | |
| Rated AC output power | 8000 W | 9999 W |
| Max. AC output apparent power | 8000 VA | 9999 VA |
| Max. AC output current | 36.4 A | 45.5 A |
| Rated AC voltage | 1 / N / PE, 220 V / 230 V / 240V | |
| AC voltage range | 154 V – 276 V | |
| Rated grid frequency | 50 Hz / 60 Hz | |
| Grid frequency range | 45Hz - 55 Hz / 55 Hz - 65 Hz | |
| Harmonic (THD) | < 3 % (of rated power) | |
| Power factor at rated power / Adjustable power factor | > 0.99 / 0.8 leading - 0.8 lagging | |
| Feed-in phases / Connection phases | 1 / 1 | |
| Backup data (on grid mode) | | |
| Max. output power for backup load | 14500 W*** | |
| Max. output current for backup load | 63 A | |
| Backup data (off-grid mode) | | |
| Rated voltage | 1 / N / PE, 220 V / 230 V / 240 V (± 2 %) | |
| Rated frequency | 50 Hz / 60 Hz (± 0.2 %) | |
| THDV(@Linear load) | < 2 % | |
| Backup switch time | < 10 ms | |
| Rated output power | 8000W / 8000VA | 10000W / 10000VA |
| Peak output power | 13680 VA, 10 s | |
| Efficiency | | |
| Max. efficiency / European efficiency | 97.4 % / 96.8 % | 97.5 % / 97.1 % |
| Protection & Function | | |
| Grid monitoring | Yes | |
| DC reverse polarity protection | Yes | |
| AC short-circuit protection | Yes | |
| Leakage current protection | Yes | |
| DC switch (solar) | Yes | |
| Surge Protection | DC Type II / AC Type II | |
| PID Zero | Yes | |
| Battery input reverse polarity protection | Yes | |
| General data | | |
| Topology (solar / battery) | Transformerless / Transformerless | |
| Degree of protection | IP65 | |
| Dimensions (W * H * D) | 605 mm * 435 mm * 181 mm | |
| Weight | 29 kg | |
| Mounting method | Wall-mounting bracket | |
| Operating ambient temperature range | -25 °C to 60 °C | |
| Allowable relative humidity range(Non-condensing) | 0 % - 100 % | |
| Cooling method | Natural convection | |
| Max. operating altitude | 4000 m | |
| Noise (Typical) | 35 dB (A) | |
| Display | LED digital display and LED indicator | |
| Communication | RS485, WLAN, Ethernet, CAN | |
| DI / DO | DI * 4 / DO * 2 / DRM0 | |
| DC connection type | MC4 (PV, Max.6mm ²) / Plug and play connector (battery, Max.10mm ²) | |
| AC connection type | Plug and play connector (Max.16mm ²) | |
| Compliance | IEC 62109-1, IEC 62109-2, IEC 62477-1, IEC61000-6-1/-2/-3/-4, IEC62920, EN55011, CISPR 11, AS/NZS 4777.2:2020, NRS 097 | |
| Country of manufacture | China | |

* Please refer to the user manual for the full load MPPT voltage range

** Depending on the connected battery

***Please refer to the user manual and modify the settings based on actual load power

