

6KW~10KW Three-phase Hybrid Inverter

Features



- PV & Storage System**
 Integrate PV and storage system modem, support multiple batteries, integrate with EMS Smart Energy Management Systems;
- Smart Switching**
 UPS function, support three-phase imbalance, on/off grid switch within 10ms;
- Wide Voltage Input Range**
 Wide PV voltage input range 180V-950V, wide batteries voltage range 180V-550V;
- Safe and Reliable**
 IP65 protection and a built-in lightning protection system with high-precision leakage protection.
- Smart and Simple**
 Ultra-silent, with flexible communications and remote/local USB upgrade options.
- High Efficiency**
 Support bifacial panels and a maximum DC current 12.5A and PV input power up to 1.3 X rated power.



Hybrid

10 Years Design Life



EURO EN50549

AUS ESP ZA SA
GER AUT ITA UK
Grid Standards

Product Parameters

| Model | ETH-6KW | ETH-8KW | ETH-10KW | |
|---------------------|------------------------------|--|-------------|---------------|
| Efficiency | MAX Efficiency | 98.20% | | |
| | European Efficiency | 97.30% | | |
| PV | Number of MPPT Trackers | 2 | | |
| | Number of Strings Per MPPT | 1/1 | | |
| | MAX Input Power | 9000W | 12000W | 15000W |
| | MAX Input Voltage | 1000V | | |
| | MPPT Operating Voltage Range | 180~950V | | |
| | Start-up Voltage | 120V | | |
| | MAX Input Current | 15A/15A | | |
| | MAX Short Circuit Current | 18A/18A | | |
| Battery | Battery Voltage Range | 180~550V | | |
| | MAX Charge/Discharge Current | 25A/30A | | |
| | MAX Charge/Discharge Power | 6000W/6000W | 8000W/8000W | 10000W/10000W |
| | Battery Type | Li-ion / Lead-acid | | |
| AC Output (On-grid) | Nominal Output Power | 6000W | 8000W | 10000W |
| | MAX Apparent Power | 6000VA | 8000VA | 10000VA |
| | Nominal Output Voltage | 380V/400V, 3L/N/PE | | |
| | Nominal Output Frequency | 50Hz / 60Hz | | |
| | MAX Output Current | 10A | 12A | 15A |
| | Power Factor | ≈1 (0.8 lead to 0.8 lag can be set) | | |
| | Total Harmonic Distortion | <3% | | |
| AC Output (Back-up) | Nominal Output Power | 6000W | 8000W | 10000W |
| | MAX Apparent Power | 6000VA | 8000VA | 10000VA |
| | Nominal Output Voltage | 380V/400V, 3L/N/PE | | |
| | Nominal Output Frequency | 10A | 12A | 15A |
| | MAX Output Current | 50Hz / 60Hz | | |
| Protection | AC Overcurrent Protection | Integrated | | |
| | Ground Fault Protection | Integrated | | |
| | Power Network Monitoring | Integrated | | |
| | Residual Current Monitoring | Integrated | | |
| | Operating Temperature Range | -25°C~60°C (Derating occurs when >45°C) | | |
| General Data | Altitude | <4000m | | |
| | Noise | <40dB | | |
| | Topology | Transformerless Isolation | | |
| | Cooling | Natural Convection | | |
| | Ingress Protection Rating | IP65 | | |
| | Relative Humidity | 0%~100% (Non-condensing) | | |
| | DC Connector Type | MC / Amphenol / Phoenix | | |
| | AC Connector Type | Plug-in Connector | | |
| | Display | LCD | | |
| | Cloud Communication | RS485 (WiFi / 4G / GPRS Optional) | | |
| | BMS Communication Mode | CAN | | |
| | Communication with Meter | RS485 | | |
| | Installation | Wall Mount | | |
| | Self-consumption at Night | < 10W | | |
| | Dimensions (W*D*H) | 505*220*570mm | | |
| Weight | Approx. 29kg | | | |
| Certification | Safety Standards | IEC62109-1/-2 | | |
| | EMC Standards | EN61000-6-1/-2/-3, IEC61000 | | |
| | On-grid Standard | AS4777.2:2020, NRS097-2-1:2017, PN-EN50549-1:2019, VDE-AR-N 4105:2018, EN50549-1:2019+ AC:2019-4 | | |