



**THREE PHASE HYBRID
INVERTER**


**HiWAVE SERIES
8-12kW**

Description

Solenso Hybrid Inverter (8-12kW) is a versatile solution compatible with three phase systems, meeting the storage needs of using PV panels. This intelligent energy storage solution features a Grid Former function that activates the PV panels in off-grid environments, increasing PV panel utilization. Support three-phase pure sine wave output. Its IP65 protection rating ensures waterproof and dustproof performance, ensuring reliable performance in a variety of environments.


Features

 **SMART CONTROL**
Various storage modes can be chosen on Solenso Island support.

 **INTELLIGENT**
Smart EMS/BMS

 **EXCELLENT SHORT-TERM OVERLOAD PERFORMANCE**
Max. 6HP Overload Capacity for Peak Demands

 **THREE-PHASE DYNAMIC BALANCE**
Maintain Three-Phase Current Balance Dynamically.

 **MAX. 260A**
Max. Charge/Discharge Current 260A

 **GRID FORMER**
Activate PV panels in off-grid environment.

Technical Specifications

| Model | HiWave-TL8 | HiWave-TL10 | HiWave-TL12 |
|--------------------------------------|---|-------------|-------------|
| Grid Port | | | |
| Rated Output Power (VA) | 8000 | 10000 | 12000 |
| Rated Output Current per phase (Aac) | 11.6 | 14.5 | 17.4 |
| Rated Output Voltage (Vac) | 230/400 | | |
| Current THD (%) | <3% | | |
| Power Factor | 0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited) | | |
| Load Motor Capacity | 5HP | 6HP | 6HP |
| Rated Frequency (Hz) | 50/60 | | |
| Load Port | | | |
| Rated Output Power (VA) | 8000 | 10000 | 12000 |
| Rated Output Current per phase (Aac) | 11.6 | 14.5 | 17.4 |
| Rated Output Voltage (Vac) | 230/400 | | |
| Current THD (%) | <3% | | |
| Power Factor | 0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited) | | |
| Load Motor Capacity | 5HP | 6HP | 6HP |
| Rated Frequency (Hz) | 50/60 | | |
| Solar Input | | | |
| No. Of MPPT | 2 | | |
| Max. Input Power | 12kW | 15kW | 18kW |
| Max. Input Current Per MPPT | 22A | | |
| Max. Open Circuit Voltage Per MPPT | 800Vdc | | |
| MPPT Voltage Range | 200-650Vdc/200-650Vdc | | |
| Battery | | | |
| Max.Charging/Discharging power (kW) | 9.21 | 11.26 | 13.31 |
| Max.Charging/Discharging current (A) | 180 | 220 | 260 |
| Rated Battery Voltage (V) | 51.2 | | |
| Battery Voltage Range (Vdc) | 44.8-56 | | |
| Battery Type | Li-ion / Lead-Acid / User Defined | | |
| Efficiency | | | |
| Max. Efficiency (%) | 97.5 | | |
| European Efficiency (%) | 97.2 | 97.5 | 97.5 |
| Protection | | | |
| Anti-Islanding Protection | Yes | | |
| Over Current/Voltage Protection | Yes | | |
| AC Short Circuit Protection | Yes | | |
| Ground Fault Monitoring | Yes | | |
| Insulation Resistance Protection | Yes | | |
| General Data | | | |
| Dimensions (W*H*D, mm) | 400*700*260mm | | |
| Weight (kg) | 39.2kg | | |
| Enclosure Protect Level | IP65 | | |
| Operating Temperature Range (°C) | -25-60°C, >45°C Derate | | |
| Relative Humidity (%) | 0-100 | | |
| Cooling Method | Heat sink + intelligent fan cooling | | |
| Communication | | | |
| Communication inter Interfaces | RS485/CAN/USB | | |
| External Module (ptional) | Wi-Fi/GPRS | | |
| Certification | | | |
| Certification | IEC62109-1,IEC62109-2 | | |
| EMC | EN61000-6-1,EN61000-6-3 | | |
| Rohs | Enable | | |