



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.



EXCELLENT SHORT-TERM OVERLOAD PERFORMANCE

Max. 6HP Overload Capacity for Peak Demands

260A^{MAX}

MAX. 260A

Max. Charge/Discharge Current 260A



INTELLIGENT

Smart EMS/BMS



THREE-PHASE DYNAMIC BALANCE

Maintain Three-Phase Current Balance Dynamically.



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 Capicity	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 Capicity	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 Volatge 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					