

**EV-HES-H3 Series Three Phase** 



#### **PRODUCT OVERVIEW**

The HES-H3 series is an all-in-one hybrid inverter which integrates solar energy storage and grid power storage with sine wave AC output. Thanks to DSP control and an advanced control algorithm, the HES-H3 series has a high response speed, high reliability and meets top industry standards.

### **FEATURES**

- EFFICIENT Advanced MPPT technology with up to 99.9% efficiency; up to 1000V PV input voltage, ideal for high power
- WATERPROOF PROTECTION Outputs high quality pure sine wave AC power; IP65 environmental protection for outdoor installation
- USER FRIENDLY Industrial design with a modern aesthetic look; wall-mounted installation saves space
- SAFETY 360 degrees of security from hardware to software; on-grid certification available
- ALL-IN-ONE the 380V three phase system is efficient, reliable and ideal for large equipment, providing energy and cost savings
- INTELLIGENT Exclusive Li-ion battery BMS dual activation; scheduling function to save costs with peak demand charges

### **APPLICATIONS**

- Emergency power supply.
- Home backup storage.
- Data storage/UPS backup systems.
- Off-grid power storage.
- Solar power storage.

## **Product Description**

PART#	DESCRIPTION	OUTPUT VOLTAGE	MAX PV INPUT VOLTAGE	POWER OUTPUT	OUTPUT CURRENT
EV-HES80SH3	Three Phase Hybrid Inverter	380V-415V	500V+500V	8000W	11.5A
EV-HES100SH3	Three Phase Hybrid Inverter	380V-415V	500V+500V	10000W	14.4A
EV-HES120SH3	Three Phase Hybrid Inverter	380V-415V	500V+500V	12000W	17.3A

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## **Specifications**

MODEL#	EV-HES80SH3	EV-HES100SH3	EV-HES120SH3		
INVERTER OUTPUT					
Rated Output and UPS Power	8000W	10000W	12000W		
Maximum Output Power	8800VA	11000VA	13200VA		
Peak Power (Off Grid)		2 times rated power, 10 S			
Rated Grid Output Current	11.5A	14.4A	17.3A		
Maximum Grid Output Current	12.7A	15.9A	19.1A		
Power Factor		0.8			
Rated AC Frequency	50/60Hz				
AC Voltage Range		380~415V			
Total Harmonic Current	THD<3% (Linear load<1.5%)				
Output Mode	Off-grid (default) / On-grid / Hybrid				
BATTERY					
Battery Type	Lead-acid / Li-ion / User defined				
Voltage Range	126~600Vdc				
Maximum Charging Current	50A				
Maximum Discharging Current	50A				
PV INPUT					
Number of MPPT Trackers		2			
Number of Strings per MPPT Tracker		1+1			
Maximum DC Input Power	6000W+6000W	7500W+7500W	9000W+9000W		
Maximum PV Input Voltage		500V+500V			
PV Input Current		15A+15A			
MPPT Voltage Range		180-850Vdc			
Min. PV Input Voltage/Startup Voltage		125V/180V			
GRID/GENERATOR INPUT					
Rated Input Frequency and Voltage	50/60Hz, 3L+N+PE, 220/230V, 230/400V, 240/415V				
Maximum DC Input Power	16000W	20000W	24000W		
Max. Input Rated Apparent Grid Power	13200W	17600W	22000W		
Maximum Grid Input Current	25.5A	31.9A	38.2A		
EFFICIENCY					
MPPT Tracking Efficiency	99.9%				
Euro-eta	97.2% 97.5%		%		
Maximum Efficiency	97.9% 98.3%		%		
GENERAL					
Dimensions		620*550*230mm			
Weight	35kg				
Environmental Protection	IP65				
Operating Temperature Range	perating Temperature Range 15°C-55°C				

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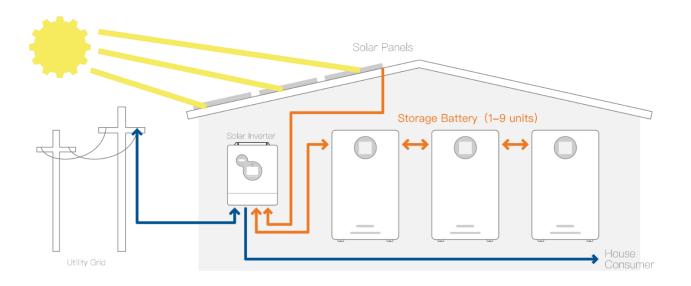




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MODEL#	EV-HES80SH3	EV-HES100SH3	EV-HES120SH3			
Noise	<30dB					
Warranty	5 years					
COMMUNICATION						
Embedded Interfaces	RS485 / CAN					
External Modules (Optional)	WiFi/GPRS					
CERTIFICATION						
Safety	IEC62109-1, IEC62109-2, CEI-021, VDE4105, VDE0124					
EMC	EN61000-6-1, EN61000-6-3, FCC 15 Class B					

# **Typical System Configuration**



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