

## Overview

EP-HY series hybrid Inverter is a high efficiency battery storage and solar inverter ,for residential system. It can be coupled directly with solar panels to generate usable electricity in the property as well as store any excess energy for back up in the battery. The Hybrid Inverter aims to minimise to grid by storing excess energy in the battery during generation hours. Additionally, it will minimise grid import by discharging to meet demand in the property.

## Features

- **Remote Firmware**

Control and monitor your Smart System on the move via our EPEVER Monitoring App and Portal.

- **Flexible Rate Tariff**

Charge from the grid at off-peak times when energy is cheaper, and discharge at peak times where energy is more expensive.

- **5 Year Warranty**

Supplied with a full manufacturers warranty, extendable to 10 years. Our after sales service team are on hand to help you should any issues arise.

- **New Solar Installations**

Replace your old storage system with a brand new Smart System and gain the benefits of renewable energy.



Parameter	EP-HY-3.6-G3	EP-HY-5.0-G3
<b>DC input</b>		
Max.PV input power	6500W	
Start-up Voltage	100V	
Max.DC Voltage	600V	
MPPT Voltage Range	120-550V	
DC Nominal Voltage	360V	
Max.Short Circuit Current	2*20A	
Max.Input Current per MPPT tracker	15A	
No. of MPP trackers/ PV strings per MPP tracker	2/1	
<b>AC output</b>		
Nominal AC Output Power	3600W	5000W
Max. Apparent Power Output to Utility Grid	3800VA	5200VA
Max. Output Current	16A	22.8A
Nominal Voltage Range	180VAC - 270VAC	
AC Grid Frequency Range	50 / 60 Hz; $\pm 5$ Hz	
Power Factor at Rated Power	>0.99	
Power Factor	0.8 Leading... 0.8 Logging	
THDI	<3%	
AC connection	Single phase	
<b>Battery</b>		
Battery Type	Li-ion / Lead Acid	
Battery Voltage Range	46.7V-57.6V	
Nominal Voltage	51.2VDC	
Charge / Discharge Current	65A / 81A	
Max. Charging / Discharging power	3300W/3600W	
Communication Interface	RS485	
<b>BACKUP TERMINAL PARAMETER (AC)</b>		
Nominal AC Output Power	3600W	5000W (3600W battery only)
Nominal Voltage	220VAC / 230VAC	
Max. Output Current	16A	21.7A
Nominal Frequency	50Hz / 60Hz	
Automatic Switch Time	10ms	
THDv (Linear Load)	<3%	

Parameter	EP-HY-3.6-G3	EP-HY-5.0-G3
<b>Basic Data</b>		
Dimensions(D* H* W)	588 x 214 x 480 (mm)	
Weight	32kg	
Charge / Discharge Efficiency	94% / 94%	
PV Max. Efficiency	97.6%	
European Efficiency	97%	
MPPT Efficiency	99.9%	
Protection Class	IP65	
Noise Emission (Typical)	<30dB	
Operating Temperature Range	-25°C - 60°C with derating at 50°C	
Relative Humidity	0 ~ 100%	
Altitude	4000m (derating above 2000m)	
Consumption Operating (Standby) / Night	<5W / <0.5W	
Topology	Transformerless	
Cooling Concept	Natural convection	
<b>Protection</b>		
DC Reverse Polarity Protection	Yes	
DC Switch Rating for each MPPT	Yes	
Output Over Current Protection	Yes	
Output Overvoltage Protection Varistor	Yes	
Ground Fault Monitoring	Yes	
Grid Monitoring	Yes	
Max. Inrush Current	30A Peak	
Max. Output Fault Current	40A Peak	
Max. Output Overcurrent Protection	25A RMS	
Earth Leakage Current Monitoring	Yes	
<b>Compliance</b>		
TÜV CE, TÜV IEC 62109-1&2, TÜV VDE 0126-1-1, TÜV, AS 4777&AS/NZS 3100, EN50549, SAA, G99, G100		
<b>Features</b>		
Display LCD	LED & APP	
Communication	BMS: RS485 Meter	
	Meter: RS485 Portal	
	WiFi (USB) or LAN	