



**The GivEnergy Hybrid Inverter is a battery and solar inverter in one unit.**

It can be coupled directly with solar panels to generate usable electricity in the property as well as store any excess energy for later use in a battery. The Hybrid Inverter aims to minimise export by storing excess energy in the battery during generation hours. Additionally, it will minimise import by discharging to meet demand in the property.



#### Remote Firmware

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



#### New Solar Installations

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



#### Flexible Rate Tariff

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



#### 12 Year Warranty

Supplied with a full manufacturer's warranty. Our UK team are on hand to help you should any issues arise.

# Hybrid Inverter 5.0 Gen 1

## INPUT DATA (PV)

Max. DC Power	6500W
Max. DC Voltage	580V
Start-Up Voltage	140V VOC (120V Vmpp)
DC Nominal Voltage	360V
PV Nominal Voltage	120V - 580V
MPPT Voltage Range	120V - 550V
Max. Input Current (per string)	11A
Max. Short Circuit Current (per string)	20A
Number of Independent MPPT Input	2

## OUTPUT DATA (AC)

Nominal AC Output Power	5000W
Max. Apparent Power Output to Utility Grid	5000VA
Max. Output Current	21.7A
Nominal Voltage / Range	180VAC - 270VAC
Frequency Range	50 / 60±5Hz
Power Factor (Full Load)	>0.99
Power Factor Range	0.8 Lagging... 0.8 Leading
THDI (Nominal Power)	<3%
AC Connection	Single Phase

## BATTERY

Nominal AC Output Power	2500W
Max. Charging / Discharging Current	50A / 50A

## BACKUP OUTPUT

Max. Power Output (Battery + Solar)	5000W
Max. Power Output from Battery	2600W
Output Frequency	50 Hz
Output Voltage	230V

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### PROTECTION DEVICES

DC Reverse Polarity Protection	Yes
DC Switch Rating for each MPPT	Yes
Output Overcurrent 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

### GENERAL DATA

Dimensions	440H x 260D x 480W (mm)
Weight	24 Kg
Operating Temperature Range	-25°C > 55°C (Ambient)
Consumption Operating (Standby) / Night	<5W / <0.5W
Inverter Topology	Transformerless
Cooling Concept	Natural
Protection Class	IP65

### FEATURES

PV Connection	H4 / MC4
Battery Connection	Screw Terminal
AC Connection	Screw Terminal
Display	LED
Interfaces: WiFi / USB / GPRS / RS485 / 4G	Opt / Yes / Opt / Yes / Opt
Warranty	12 Years

### CERTIFICATES AND APPROVALS

TÜV CE,  
TÜV IEC 62109-1&2,  
TÜV VDE 0126-1-1,  
TÜV AS4777&AS/NZS 3100,  
EN50549,  
SAA,  
G99,  
G100