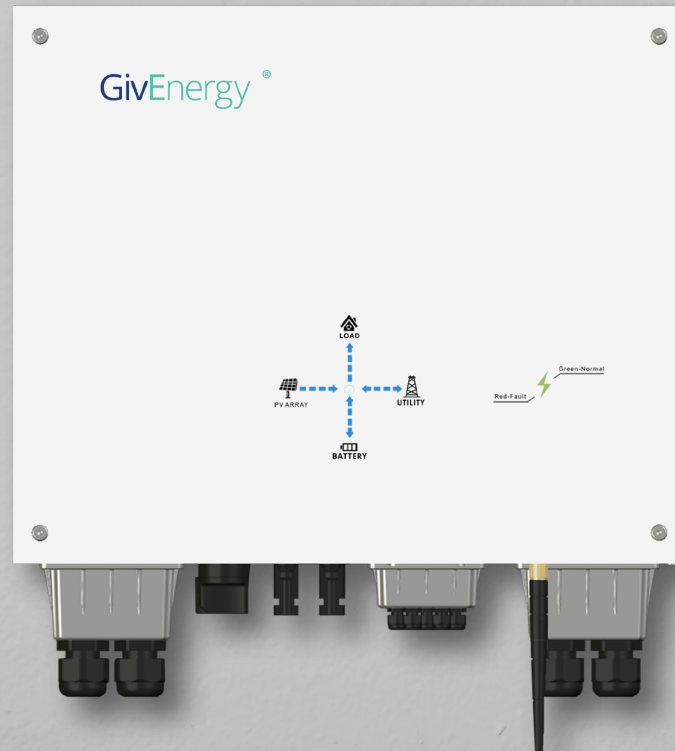


Hybrid Inverter Gen 2



Remote Firmware

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



Flexible Rate Tariff

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



5 Year Warranty

Supplied with a full manufacturers warranty, our dedicated UK support 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.

The second generation of the GivEnergy Hybrid Inverter is a battery inverter and solar inverter in one unit.

It can be coupled directly with solar panels to generate usable electricity in the property, as well as storing 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.

Dimensions (HxDxW)
410 x 210 x 480 (mm)

Weight
27.5 Kg

Connectivity
WiFi, LAN or 4G Connectivity

Variants
3.6kW and 5kW

MODEL	Giv-HY 3.6	Giv-HY 5.0
Input Data (PV)		
Max DC Input Power	4700W	6500W
Start-up Voltage		150V
Max PV Voltage		600V
MPPT Range		150V - 550V
Nominal Voltage		360V
Max Short Current		2*17.5A
Max Input Current		11A / 11A
MPPT Tracker / No. of Strings per MPPT Tracker	2/1	2/1
Battery		
Battery Type		Li-ion
Battery Voltage Range		46.7 - 57.6V
Nominal Voltage		48V
Charge / Discharge Current		65A / 81A
Max Charge / Discharge Power		3600W / 3600W
Communication Interface		RS485
Output Data (AC)		
Nominal AC Output Power	3600W	5000W
Max Apparent Power Output to Utility Grid	3600VA	5000VA
Max Output Current	16A	22.8A
Nominal Voltage/Range		230V.a.c; 180--270V.a.c
Frequency Range		50 / 60 Hz; ±5 Hz
Power Factor (Full Load)		>0.99
Power Factor Range		0.8 lagging - 0.8 leading
THDI (Nominal Power)		<3%
AC Output Topology		Single phase
Backup Terminal Parameter (AC)		
Nominal AC Output Power		3600W
Nominal Voltage		230Vac
Max Output Current		16A
Nominal Frequency		50 Hz
Automatic Switch Time		10ms
THDv (Linear Load)		<3%
General Data		
Battery Charge / Discharge		94% / 94%
PV Max Efficiency		97.60%
Euro Efficiency		97%
MPPT Efficiency		99.90%
Protection Class		IP65
Noise Emission (Typical)		<30dB
Operation Temperature		25~+60oC
Relative Humidity		0 ~ 100%
Altitude		4000m (derating above 2000m)
Inverter Topology		Transformerless
Self-consumption		<5W
Features		
Display LCD		LED & APP
Interface		
Communication		BMS: RS485 Meter - Meter: RS485 Portal - WiFi (USB) or LAN
Certificates and Approvals		

TÜV CE, TÜV IEC 62109-1&2, TÜV VDE 0126-1-1, TÜV G83/2, TÜV G59/3, TÜV AS4777&AS/NZS 3100, EN50549, SAA, TÜVG98/1-4: 2019, G98, G99, G100