



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.



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 where 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 UK team are on hand to help you should any issues arise.

Hybrid Inverter 5.0 Gen 2

INPUT DATA (PV)

| | |
|---|-----------|
| Max. DC Input Power (per string) | 7.5kWp |
| Start-up Voltage | 150V |
| Max PV Voltage (per string) | 580V DC |
| MPPT Range | 150V-550V |
| Nominal Voltage | 360V |
| Max. Short Circuit Current (per string) | 20A |
| Max. Input Current | 13A |
| Number of Independent MPPT Input | 2/1 |

OUTPUT DATA (AC)

| | |
|--|----------------------------|
| Nominal AC Output Power | 5000W |
| Max. Apparent Power Output to Utility Grid | 5000VA |
| Max. Output Current | 22.8A |
| Nominal Voltage / Range | 230VAC - 270VAC |
| 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 |

BATTERY

| | |
|-------------------------------|---------------|
| Battery Type | Lithium-ion |
| Battery Voltage Range | 45V - 58V |
| Nominal Voltage | 51.2V |
| Charge* / Discharge Current | 65A / 81A |
| Max. Charge / Discharge Power | 3300W / 3600W |
| Communication Interface | RS485 |

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% |

* Charge current increased to 70A via firmware update

PROTECTION DEVICES

| | |
|---|----------|
| 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 |

GENERAL DATA

| | |
|----------------------------|-------------------------------------|
| Dimensions (HxDxW) | 410H x 210D x 480W (mm) |
| Weight | 27.5 Kg |
| Battery Charge / Discharge | 94% / 94% |
| PV Max. Efficiency | 97.60% |
| Euro Efficiency | 97% |
| MPPT Efficiency | 99.90% |
| Protection Class | IP65 |
| Noise Emission (Typical) | <30dB |
| Operational Temperature | -20°C ~ +60°C (derating at 50°C) |
| 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 AS4777&AS/NZS 3100,
EN50549,
SAA,
G99,
G100,