



The third generation of 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.



In-built WiFi and LAN

Includes in-built WiFi and LAN for a hard-wired network connection.



Higher Charge/Discharge Rate

Increased efficiency, higher discharge rates of up to 10kW.



Flexible Rate Tariff

Charge the battery off-peak when it's cleaner, greener and less costly then discharge the battery during peak times for maximum saving.



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 10.0 Gen 3

INPUT DATA (PV)

| | |
|--|----------|
| Max. DC Input Power | 15000W |
| Start-up Voltage | 80V |
| Max. PV Voltage | 600V |
| MPPT Range | 90V-550V |
| Nominal Voltage | 230V |
| Max. Short Circuit Current | 38A/38A |
| Max. Input Current (per string) | 30A/30A |
| MPPT Tracker / No. of Strings per MPPT Tracker | 2/2 |

OUTPUT DATA (AC)

| | |
|--|----------------------------|
| Nominal AC Output Power | 10000W |
| Max. Apparent Power Output to Utility Grid | 10000VA |
| Max. Output Current | 46A |
| Nominal Voltage / Range | 230VAC |
| 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 Connection | Single Phase |

BATTERY

| | |
|-------------------------------|---------------------|
| Battery Type | LiFePO ₄ |
| Battery Voltage Range | 120V - 600V |
| Nominal Voltage | 340VDC |
| Charge* / Discharge Current | 30A / 30A |
| Max. Charge / Discharge Power | 10000W / 10500W |
| Communication Interface | CAN |

BACKUP TERMINAL PARAMETER (AC)

| | |
|-------------------------|--------|
| Nominal AC Output Power | 10000W |
| Nominal Voltage | 230VAC |
| Max. Output Current | 46A |
| Nominal Frequency | 50 Hz |
| Automatic Switch Time | 10ms |
| THDv (Linear Load) | <3% |
| Pass-through current | 50A |

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 |
| AFCI | Yes |

GENERAL DATA

| | |
|-------------------------------|---------------------------------|
| Dimensions | 583H x 205D x 480W (mm) |
| Weight | 32Kg |
| Charge / Discharge Efficiency | 96% / 96% |
| PV Max. Efficiency | 97.6% |
| Euro Efficiency | 97% |
| MPPT Efficiency | 99.9% |
| Protection Class | IP65 |
| Noise Emission (Typical) | 55dB |
| Operational Temperature | -25°C - 60°C |
| Relative Humidity | 0 ~ 100%, non condensing |
| Altitude | 4000m (derating above 2000m) |
| Inverter Topology | Transformerless |
| Self-Consumption | <15W |

FEATURES

| | |
|-------------|-----------|
| Display LCD | LCD & APP |
|-------------|-----------|

INTERFACE

| | |
|---------------|---|
| Communication | EMS: RS485*2 Meter - RS485*2 Portal - WiFi (USB) or LAN |
|---------------|---|

CERTIFICATES AND APPROVALS

G99,
G100