



The GivEnergy AU Hybrid Inverter is a battery inverter and solar inverter in one unit, meaning that the battery is AC and DC coupled. It can be coupled directly with solar panels to generate usable electricity in the property, as well as store any excess energy in the battery for later use. It features easy plug and play installation and on / off grid phase balancing. Additionally, it will minimise import by discharging to meet demand in the property with a discharge rate of up to 5kW.



#### In-built WiFi

Includes in-built WiFi network connection.



#### Higher Charge/Discharge Rate

Increased efficiency, higher discharge rates of up to 5kW.



#### Flexible Rate Tariff

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



#### 10 Year Warranty

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

## GIV-HY-3.6/5.0-AU

### INPUT DATA (PV)

Max. DC Input Power	5400W   7500W
Start-up Voltage	80V
Max PV Voltage	600V
MPPT Range	90V - 550V
Nominal Voltage	360V
Max. Short Current (per string)	23A
Max. Input Current (per string)	17A
MPPT Tracker / No. of Strings per MPPT Tracker	2/1

### OUTPUT DATA (AC)

Nominal AC Output Power	3600W   5000W
Max. Apparent Power Output to Utility Grid	3600W   5000W
Max. Output Current	16A   21.7A
Nominal Voltage / Range	230V/180-270VAC
Frequency Range	50 / 60 Hz ; $\pm 1\%$
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 <sub>4</sub>
Battery Voltage Range	46.7-57.6V
Nominal Voltage	51.2VDC
Charge / Discharge Current	83A/83A   112A/112A
Max. Charge / Discharge Power	4000W/4000W   5400W/5400W
Communication Interface	RS485/CAN

### BACKUP TERMINAL PARAMETER (AC)

Nominal AC Output Power	3600W   5000W
Nominal Voltage	230VAC
Max. Output Current	16A   21.7A
Nominal Frequency	50 / 60 Hz ; $\pm 1\%$
Automatic Switch Time	<10ms
THDv ( Linear Load)	<3%

GENERAL DATA

Dimensions	583H x 205D x 480W (mm)
Weight	34Kg
Charge / Discharge Efficiency	94% / 94%
PV Max. Efficiency <sup>1</sup>	97.60%
Euro Efficiency	97%
MPPT Efficiency	99.9%
Ingress Protection	IP65
Noise Emission (Typical)	<30dB
Operational Temperature	-25°C - 60°C (derating at 45°C)
Relative Humidity	0 ~ 100%
Altitude	4000m (derating above 2000m)
Inverter Topology	Transformerless
Self-Consumption	<15W
Protection Class	I
Active anti-islanding	Reactive disturbance
Overvoltage category	PV: II, Battery: II, AC: III
Manufacturing country	China

FEATURES

Display LCD	LED & APP
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INTERFACE

Communication	BMS: CAN Meter: RS485 Portal - WiFi (USB)/ LAN
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CERTIFICATES AND APPROVALS

CE, UKCA, IEC 62109-1&2, AS/NZS 4777.2
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<sup>1</sup>PV Max. Efficiency is invterter Max. Efficiency