



The GivEnergy Single-Phase Low Voltage Hybrid Inverter range pushes boundaries by intelligently managing solar PV, AC power, and battery storage in a future-ready system that can connect up to five batteries.



In-Built WiFi



Higher Charge / Discharge Rate



Flexible Rate Tariff



12 Years Warranty

DATASHEET

Hybrid Inverter
Low-Voltage

Input Data (PV)

SKU	GIV-HY-3.6 / 5.0-AU
Max. Connected PV Input	12kWp ¹
Max. DC Power	7.5kW
Start-up Voltage	80 VDC
Max PV Voltage	600 VDC
MPPT Range	90V – 550 VDC
Nominal Voltage	360 VDC
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	3.6kW / 5.0kW
Max. Apparent Power Output to Utility Grid	3.6kW / 5.0kW
Max. Output Current	16A / 21.7A
Nominal Voltage / Range	230V/180 – 270VAC
Frequency Range	50 / 60 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	46.7 – 57.6 VDC
Nominal Voltage	51.2 VDC
Charge / Discharge Current	83A/83A 112A/112A
Max. Charge / Discharge Power	4kW/4kW 5.4kW/5.4kW
Communication Interface	RS485/CAN

BACKUP TERMINAL PARAMETER (AC)

Nominal AC Output Power	3.6kW / 5.0kW
Nominal Voltage	230VAC
Max. Output Current	16A 21.7A
Nominal Frequency	50 / 60 Hz
Automatic Switch Time	<10ms
THDv (Linear Load)	<3%

GENERAL DATA

Dimensions	583H x 205D x 480W (mm)
Weight	34 Kg ²
Charge / Discharge Efficiency	94% / 94%
PV Max. Efficiency ³	97.60%
Euro Efficiency	97%
MPPT Efficiency	99.9%
Ingress Protection	IP65
Noise Emission (Typical)	<30dB
Operational Temperature	-25°C to +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
Warranty	12 years

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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1 Panel dependent based on Voc 600V

2 Actual weight may vary

3 PV Max. Efficiency is inverter Max. Efficiency