

# GivEnergy<sup>®</sup>

## Hybrid Inverter



Advanced Online Monitoring




Wi-Fi or 3G connectivity





Suitable for new solar installations




Brackets and fixings included

 3.6kW and 5kW variants

 Built in back up terminals for essential circuits

 Dual MPPT

 Flexible rate tariff compatible

 IP65 for multiple siting options

 Low maintenance design



<https://www.givenergy.co.uk>



# Hybrid Inverter

## Input Data (DC)

	Giv-HY 3.6	Giv-HY 5.0
Max Dc Power	4500W	6500W
Max DC Voltage		580V Dc
Start Voltage	140V DC Voc-	120V DC Vmpp
DC Nominal Voltage		360V
PV Voltage Range		100V - 600V
MPPT Voltage Range		120V - 550V
Max Input Current Per String		11A/11A
Number Of Independent MPPT Input		2

## Output Data (AC)

	Giv-HY 3.6	Giv-HY 5.0
Nominal AC Output Power	3680W	5000W
Max AC Apparent Power	3680VA	5000VA
Max Output Current	16.4A	21.7A
AC Range		180V- 280V AC
AC Grid Frequency;Range		50Hz;±5 Hz
Power Factor At Rated Power		1
Power Factor		0.9 Leading...0.9 Lagging
THDI		<3%
AC Connection	Single Phase (Multiple Units Can Be Installed For 3 Phase)	

## Battery Power

Nominal Power	2600W
Max Charging/Discharging Current	50A / 50A

## Backup Output

Max Power Output (Battery + Solar)	3600W	5000W
Max Power Output From Battery	2600W	2600W
Output Frequency	50Hz	50Hz
Output Voltage	230V	230V

## 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

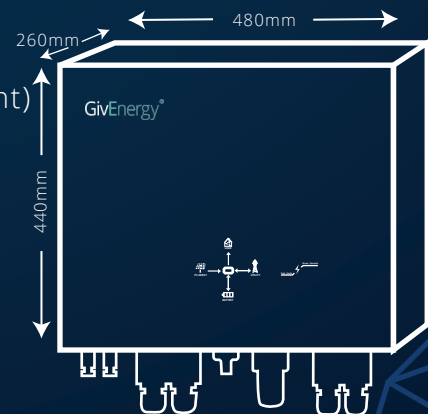
Weight	24KG
Operating Temperature Range	-25°C>55°C (Ambient)
Consumption: Operating (Standby) / Night	<5W / < 0.5W
Topology	Transformerless
Cooling Concept	Natural
Environmental Protection Rating	IP65

## Features

Pv Connection	H4 / MC4
Battery Connection	Screw Terminal
AC Connection	Screw Terminal
Display	LED
Interfaces: WI-FI/USB/GPRS/RS485/4G	Opt/Yes/Opt/Yes/Yes
Warranty: 5 Years/10 Years	Yes / Opt

## Certificates And Approvals

TÜV CE, TÜV 62109-1&2, TÜV VDE 0126-1-1, TÜV AS4777&AS/NZS 3100, EN50438, SAA, TÜVG98/1-4:2019, G98, G99, G100



# GivEnergy<sup>®</sup>

## Giv-Bat 5.2



Built in cell balancing



Remote firmware updates



Brackets and fixings included



LiFePO4 Cell Technology



Active BMS system communicates directly with inverter



Wall mount or floor stood



Heavy duty lifting handles for ease of install



100% DoD



Non Flammable / Recyclable



<https://www.givenergy.co.uk>



## Model Bat 5.2

Capacity	5.2KWh / 102Ah
Voltage	51.2VDC
Current	60A
Technology	LiFePO4 Cell
IP Grade	IP65
BMS	Robust Multi Point Monitoring BMS Pre Installed
Life Cycling (100% DOD, 25°C)	10 Years
Operating Temperature	-10°C - 55°C
Storage Temperature	-30°C~60°C
Warranty BTT	52 MWh / 10 Years
Standard	UN 38.3, IEC61000
Weight	54KG

## Electrical Parameters

Operating Voltage Range	43.2 - 58.5V DC
Maximum Charging Voltage	59VDC
Maximum Charging / Discharging Current	60A / 60A
Network Interface	RS485
Communication Protocols	Modbus
Advantages	Stackable, BMS Upgradeable, IP65

