

GivEnergy[®]

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 V_{OC} - 120V DC V_{mpp}	
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

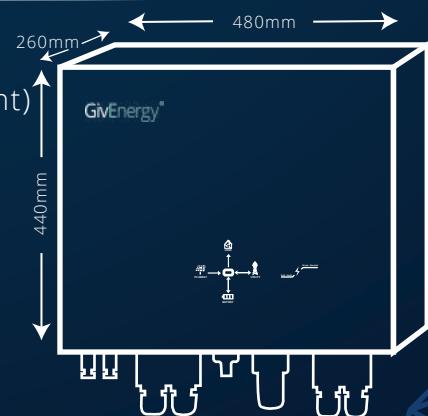
Weight	24KG
Operating Temperature Range	-25°C>55°C (Ambient)
Consumption: Operating (Standby) / Night	<5W / < 0.5W
Topology	Transformerless
Cooling Concept	Natural
Environmental Protection Rating	IP65

Features

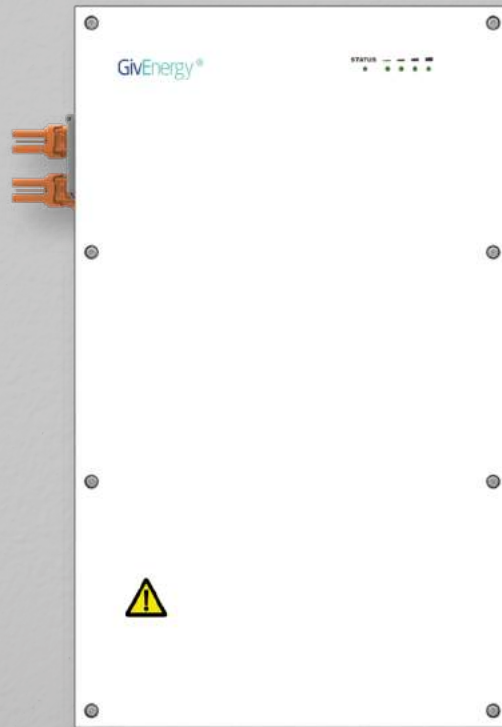
Pv Connection	H4 / MC4
Battery Connection	Screw Terminal
AC Connection	Screw Terminal
Display	LED
Interfaces: WI-FI/USB/GPRS/RS485/4G	Opt/Yes/Opt/Yes/Opt
Warranty: 5 Years/10 Years	Yes / Opt

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



Giv-Bat 9.5



Remote Firmware

Control and monitor your Smart System on the move via our GivEnergy Monitoring App and Portal.



IP65 Rating

Our IP65 rated enclosure gives protection against water and dust. Ideal for lofts and outdoor installation.



10 Year Warranty

Supplied with a full manufacturers warranty, our dedicated UK support team are on hand to help you should any issues arise.



Retrofit Compatible

Fit your new battery onto an existing system and start enjoying the benefits of our GivEnergy Smart System.

The 9.5kWh battery pack sits alongside our AC Coupled or Hybrid Inverter so that you can store energy from the grid or excess generation.

Utilising lithium iron phosphate, our batteries are extremely safe and can be installed in a wide range of locations. Our market-leading battery warranty means you can use your battery as much as you want for 10 years and still be covered.

Dimensions (HxDxW)
800 x 223 x 480 (mm)

Weight
110 Kg

Depth of Discharge
100 %

Capacity
9.5 kWh / 186 Ah

MODEL	9.5
Specifications	
Capacity	9.5 kWh / 186 Ah
Voltage	51.2V DC
Current	80A
Technology	LiFePO ₄ Cell
IP Grade	IP65
BMS	Robust Multi Point Monitoring BMS Pre Installed
Operating Temperature (Charge)	0°C - 50°C
Operating Temperature (Discharge)	-10°C - 50°C
Storage Temperature	-30°C - 60°C
Warranty BTT	Unlimited Cycles / 10 Years
Standard	UN 38.3, IEC61000
Weight	110 Kg
Protection (DC)	Inbuilt 100A DC MCB

ELECTRICAL PARAMETERS	9.5
Operating Voltage Range	46.4V - 57.6V DC
Maximum Charging Voltage	59V DC
Max Charging / Discharging Current	80A / 80A
Network Interface	RS485 / USB
Communication Protocols	Modbus
Advantages	Stackable, BMS Upgradeable, IP65
Depth of Discharge	100%

