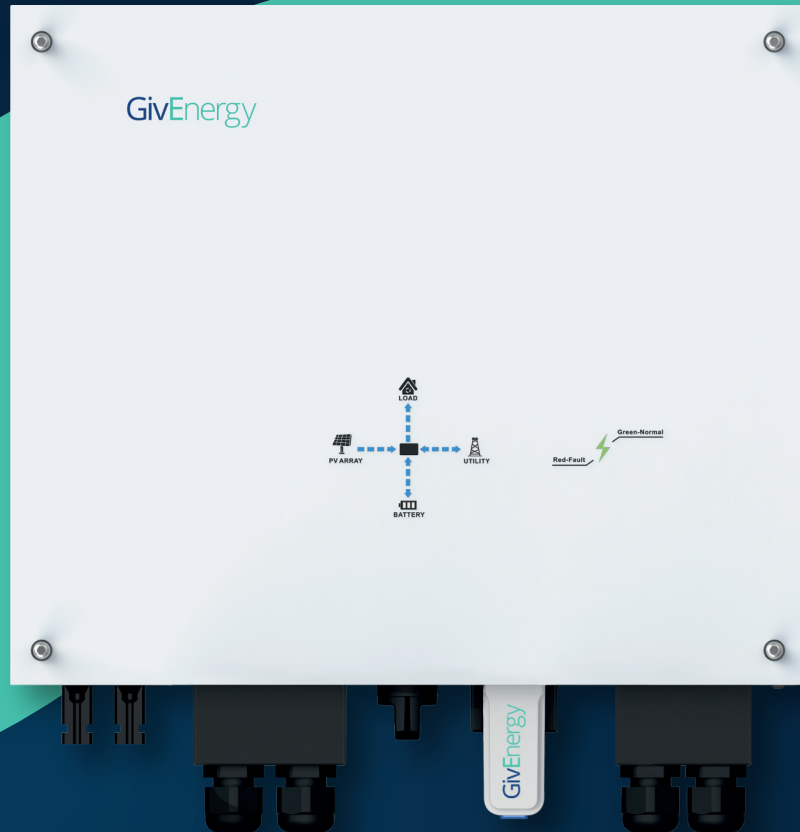


GivEnergy[®]

Energy Storage Systems



Advanced Online Monitoring



Wi-Fi or 3G connectivity



Suitable for new solar installations



Brackets and fixings included



3 kW, 3.6 kW and 5 kW inverters



IP65 for multiple siting options



2.6 kWh, 5.2 kWh and 8.2 kWh modules



Flexible rate tariff compatible



Dual MPPT



Low maintenance design

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



AC Coupled

Output Data (AC)

Nominal AC Output Power	3000W
Max AC Apparent Power	3000VA
Max Output Current	15A
AC Nominal Voltage Range	202V - 262V
AC Grid Frequency Range	50Hz \pm 5Hz
Power Factor At Rate 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	3000W
Max Charging/Discharging Current	60A / 60A

Backup Output

Output Rated Power	3000VA
Peak Power	3600VA, for 10s
Output Voltage	230Vac \pm 2%, 50Hz (60Hz Optional) \pm 0.2%, THDV<3% (Linear Load)

Efficiency

Max Efficiency	97.10%
Euro - ETA	96.5%

Protection Devices

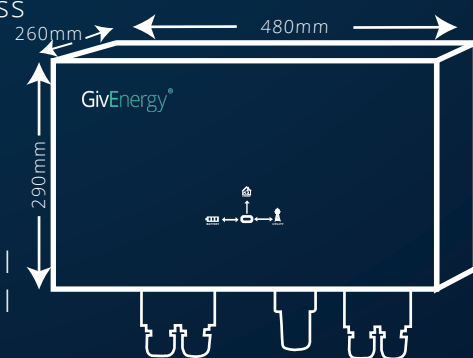
Output Over Current Protection	Yes
Output Over voltage Protection-Varistor	Yes
Ground Fault Monitoring	Yes
Grid Monitoring	Yes
Max Inrush Current	30A Peak
Max Output Fault Current	40A Peak
Max Output Overcurrent Protection	25A RMS
All Pole Sensitive Leakage Current Monitoring	Yes

General Data

Weight	19kg
Operating Temperature Range	-25°C to 60°C, with derating above 45°C
Consumption: Operating (Standby) / Night	<5W / < 0.5W
Topology	Transformerless
Cooling Concept	Natural
Environmental Protection Rating	IP65

Features

PV Monitoring	CT / Meter
Grid Monitoring	Meter
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 standard / 10 years for E.ON customers



Certificates And Approvals

AA 4777, VDE-AR-N4105, VDE0126, G83, G98, IEC62109-1-2, IEC62040, EN61000-6-2, EN61000-6-3, EN50438, G100

Hybrid Inverter

Input Data (DC)

Max Dc Power
Max DC Voltage
Start Voltage
DC Nominal Voltage
PV Voltage Range
MPPT Voltage Range
Max Input Current Per String
Number Of Independent MPPT Input

Giv-HY 3.6

4500W

580V Dc
140V DC Voc- 120V DC Vmpp
360V
100V - 600V
120V - 550V
11A/11A
2

Giv-HY 5.0

6500W

Output Data (AC)

Nominal AC Output Power
Max AC Apparent Power
Max Output Current
AC Range
AC Grid Frequency;Range
Power Factor At Rated Power
Power Factor
THDI
AC Connection

3680W
3680VA
16.4A

180V- 280V AC
50Hz;±5 Hz

1
0.9 Leading...0.9 Lagging
<3%

5000W
5000VA
21.7A

Single Phase (multiple units can be installed for 3 Phase)

Battery Power

Nominal Power
Max Charging/Discharging Current

2600W
50A / 50A

Backup Output

Max Power Output (Battery + Solar)
Max Power Output From Battery
Output Frequency
Output Voltage

3600W
2600W
50Hz
230V

5000W
2600W
50Hz
230V

Protection Devices

DC Reverse Polarity Protection
DC Switch Rating For Each MPPT
Output Over Current Protection
Output Overvoltage Protection-Varistor
Ground Fault Monitoring
Grid Monitoring
Max Inrush Current
Max Output Fault Current
Max Output Overcurrent Protection
Earth Leakage Current Monitoring

Yes
Yes
Yes
Yes
Yes
Yes
30A Peak
40A Peak
25A RMS
Yes

General Data

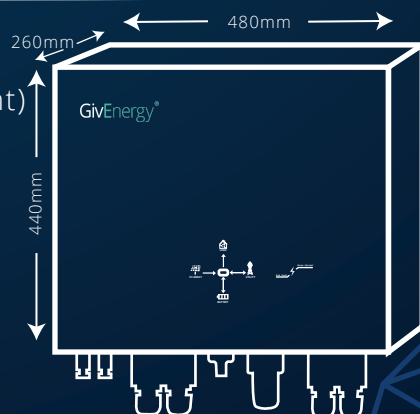
Weight
Operating Temperature Range
Consumption: Operating (Standby) / Night
Topology
Cooling Concept
Environmental Protection Rating

24KG
-25°C>55°C (Ambient)
<5W / < 0.5W
Transformerless
Natural
IP65

Features

Pv Connection
Battery Connection
AC Connection
Display
Interfaces: WI-FI/USB/GPRS/RS485/4G
Warranty: 5 Years/10 Years

H4 / MC4
Screw Terminal
Screw Terminal
LED
Opt/Yes/Opt/Yes/Yes
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

Hybrid Inverter

Input Data (DC)

Max DC Power
Max DC Voltage
Start Voltage
DC Nominal Voltage
PV Voltage Range
MPPT Voltage Range
Max Input Current Per String
Number Of Independent MPPT Input

Giv-HY 3.6

4500W

580V DC
140V DC Voc- 120V DC Vmpp
360V
100V - 600V
120V - 550V
11A / 11A
2

Giv-HY 5.0

6500W

Output Data (AC)

Nominal AC Output Power
Max AC Apparent Power
Max Output Current
AC Range
AC Grid Frequency Range
Power Factor At Rated Power
Power Factor
THDI
AC Connection

3680W
3680VA
16.4A

180V- 280V AC
50Hz \pm 5Hz
1
0.9 Leading...0.9 Lagging
<3%

5000W
5000VA
21.7A

Single Phase (Multiple Units Can Be Installed For 3 Phase)

Battery Power

Nominal Power
Max Charging/Discharging Current

2600W
50A / 50A

Backup Output

Max Power Output (Battery + Solar)
Max Power Output From Battery
Output Frequency
Output Voltage

3600W
2600W
50Hz
230V

5000W
2600W
50Hz
230V

Protection Devices

DC Reverse Polarity Protection
DC Switch Rating For Each MPPT
Output Over Current Protection
Output Overvoltage Protection-Varistor
Ground Fault Monitoring
Grid Monitoring
Max Inrush Current
Max Output Fault Current
Max Output Overcurrent Protection
Earth Leakage Current Monitoring

Yes
Yes
Yes
Yes
Yes
Yes
30A Peak
40A Peak
25A RMS
Yes

General Data

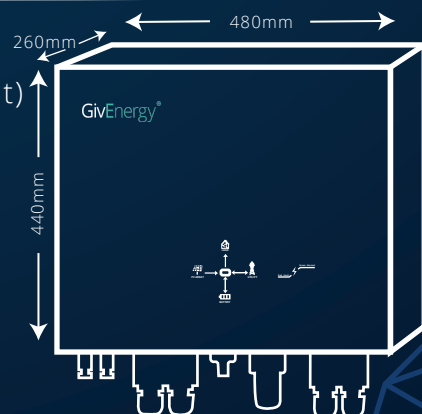
Weight
Operating Temperature Range
Consumption: Operating (Standby) / Night
Topology
Cooling Concept
Environmental Protection Rating

24kg
-25°C-55°C (Ambient)
<5W / < 0.5W
Transformerless
Natural
IP65

Features

PV Connection
Battery Connection
AC Connection
Display
Interfaces: Wi-Fi/USB/GPRS/RS485/4G
Warranty:

H4 / MC4
Screw Terminal
Screw Terminal
LED
Opt / Yes / Opt / Yes / Opt
5 years standard / 10 years for E.ON customers



Certificates And Approvals

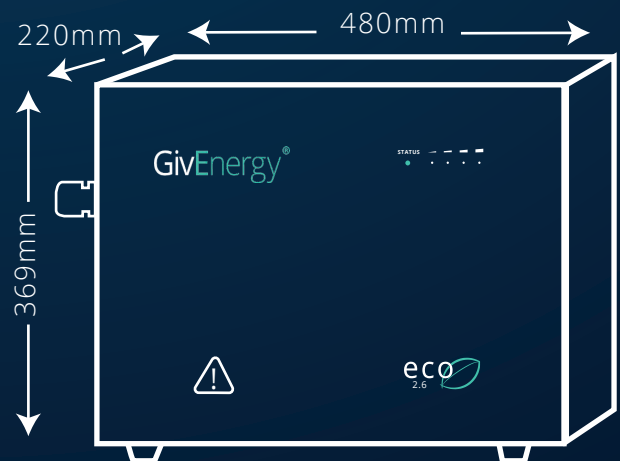
TÜV CE, TÜV 62109-1&2, TÜV VDE 0126-1-1, TÜV AS4777&AS/NZS 3100, EN50438, SAA, TÜV G98/1-4:2019, G98, G99, G100

Model Bat 2.6

Capacity	2.6kWh / 51Ah
Voltage	51.2VDC
Current	30A
Technology	LiFePO4 Cell
IP Grade	IP65
BMS	Robust Multi Point Monitoring BMS Pre Installed
Life Cycling (90% DOD, 25°C)	10 Years
Operating Temperature	-10°C - 55°C
Storage Temperature	-30°C - 60°C
Warranty BTT	26MWh / 10 Years
Standard	UN 38.3, IEC61000
Weight	32kg

Electrical Parameters

Operating Voltage Range	43.2V - 58.5V DC
Maximum Charging Voltage	59V DC
Maximum Charging / Discharging Current	30A / 30A
Network Interface	RS485
Communication Protocols	Modbus
Advantages	Stackable, BMS Upgradeable, IP65



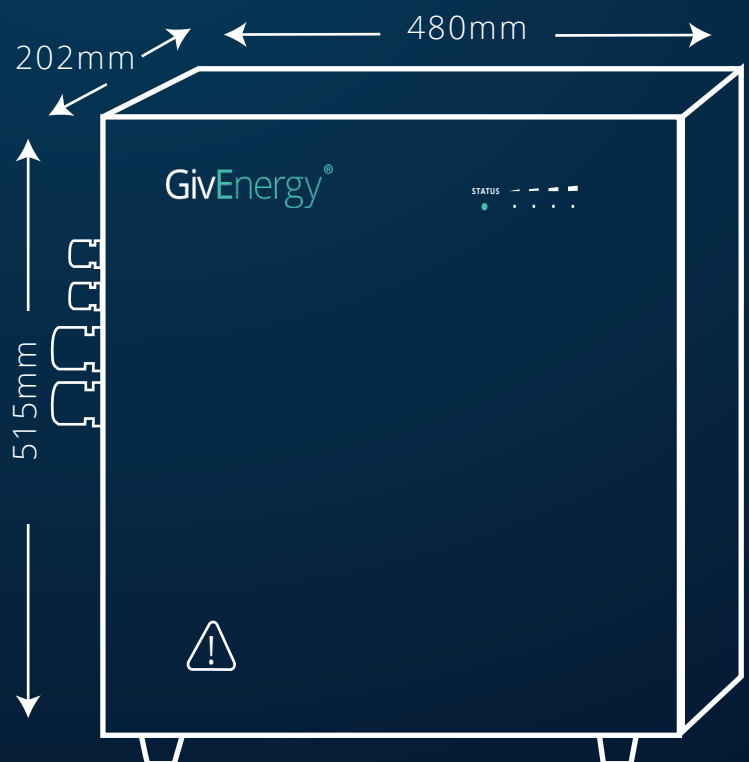
eco

Model Bat 5.2

Capacity	5.2kWh / 102Ah
Voltage	51.2V DC
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	59V DC
Maximum Charging / Discharging Current	60A / 60A
Network Interface	RS485
Communication Protocols	Modbus
Advantages	Stackable, BMS Upgradeable, IP65



Model Bat 8.2

Capacity	8.2KWh / 160Ah
Voltage	51.2VDC
Current	85A
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	Unlimited Cycles / 10 Years
Standard	UN 38.3, IEC61000
Weight	94 KG

Electrical Parameters

Operating Voltage Range	43.2 - 58.5V DC
Maximum Charging Voltage	59V DC
Maximum Charging / Discharging Current	85A / 85A
Network Interface	RS485
Communication Protocols	Modbus
Advantages	Stackable, BMS Upgradeable, IP65

