

PRODUCT BROCHURE



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Building a system

Our battery systems are comprised of 5 different parts.





Inverters

An inverter converts DC (direct current) electricity into AC (alternating current) and vice versa. Solar panels generate in DC and you use mains AC in your home. Batteries are also DC.

Available products:

- AC Coupled 3.0
- HY 3.6
- HY 5.0

Batteries

Battery storage allows you to store electrical energy from a generation source or off-peak tariffs to use when costs are higher or there isn't enough generation to cover demand alone.

Available products:

- Giv-Bat-ECO 2.6
- Giv-Bat 5.2
- Giv-Bat 9.5



Metering Solutions

Our meters are required to collect data to display energy values and to provide monitoring points for our system.

Available products:

- FM115
- EM418



Communications

Connect your devices to the GivEnergy Portal via WiFi or 4G and receive detailed information about your home energy usage, generation and battery.

Available products:

- WiFi Dongle
- 4G Dongle



Isolator

A DC Isolator switch is an electrical safety device that automatically disconnects itself in the event of a fault.

Available products:

• 100A

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Hybrid Inverters

The GivEnergy Hybrid Inverter is a battery inverter and solar inverter in one unit. It can be coupled directly with solar panels to generate usable electricity in the property, as well as storing any excess energy for later use in a battery.

The battery is DC and AC coupled. DC Coupled allows the battery to charge efficiently from excess generation, whilst the AC Coupled charges from the grid using cheap rate electricity.

The Hybrid inverter aims to minimise export by storing excess energy in the battery during generation hours. Additionally, it will minimise import by discharging to meet demand in the property.

The Hybrid Inverter is compatible with flexible rate tariffs that fluctuate depending on time of day and wholesale prices. You can charge from the grid during off-peak times where rates are cheaper, and discharge the battery during peak times when energy is more expensive.

With an IP (Ingress Protection) rating of 65, the Hybrid Inverter can be installed inside and outside and is available in 3.6kW and 5kW forms.

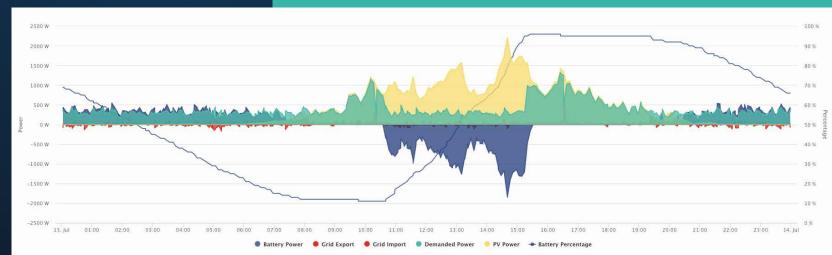
The inverter reports to the GivEnergy Portal, providing you with a detailed overview of your energy generation and usage.



How does a Hybrid Inverter work?

The graph below shows excess PV Power being stored in the battery during the day, ready to be used during the evening where demand is higher. Energy imported from the grid is minimal.

More information can be found at www.givenergy.co.uk.





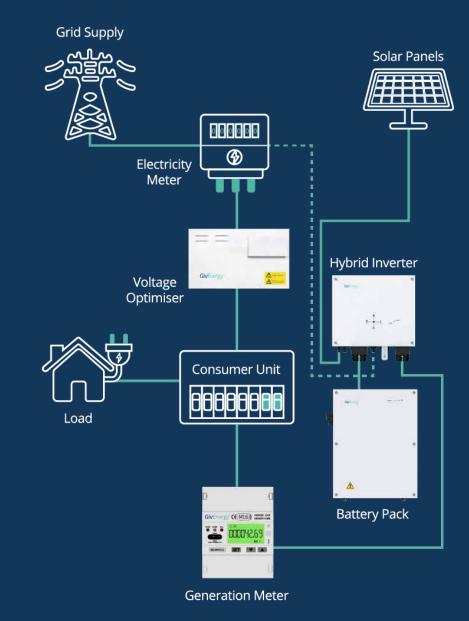
Hybrid Inverter Specifications

Trybria inverter specifica	CIOIIS		
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	58DV DC 40V DC VOC - 12DV DC V 36DV 100V - 600V 120V - 550V 11A / 11A 2	Giv-HY 5.0 6500W /mpp
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 Single Phase (r	180V - 280V AC 50 Hz; +5 Hz 1 0.9 Leading0.9 Laggii <3% nultiple units can be ins	
Battery Power Nominal Power Max Charging / Discharging Current Backup Output Max Power Output (Battery + Solar) Max Power Output from Battery Output Frequency Output Voltage	3600W 2600W 50 Hz 230V	2600W 50A / 50A	5000W 2600W 50 Hz 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 Yes 30A Peak 40A Peak 25A RMS Yes	GivEnergy*
General Data Weight Operating Temperature Range Consumption Operating (Standby) / Night Topology Cooling Concept Environmental Protection Rating Features		24 Kg -25°C > 55°C (Ambieni <5W / <0.5W Transformerless Natural IP65	W U W
PV Connection Battery Connection AC Connection Display Interfaces: WiFi / USB / GPRS / RS485 / 4G Warranty: 5 Years / 10 Years		H4 / MC4 Screw Terminal Screw Terminal LED Opt / Yes / Opt / Yes / O Yes / Opt	Opt

Certificates and Approvals

TÜV CE, TÜV IEC 62109-1&2, TÜV VDE 0126-1-1, TÜV G83/2, TÜV G59/3, TÜV AS4777&AS/NZS 3100, EN50549, SAA, TÜVG98/1-4: 2019, G98, G99, G100

How a Hybrid Inverter works



AC Coupled

Our AC Coupled Inverter works as a standalone energy storage system or works alongside solar, hydro, or windturbine to store excess energy.

Make the most of your split rate energy tariffs (e.g. Economy 7) by charging the battery at off-peak times when energy rates are cheaper and discharging during what would be the more expensive periods to reduce your energy bill.

By choosing a suitable battery size, you could benefit from cheaper rates of electricity all day.

Got a PV system with a feed in tariff? The AC Coupled systemcan be retrofitted to any form of generation without affecting any feed in tariff payments as it does not change the existing installation.

The inverter can charge from excess generation that would otherwise be sent back to the grid. It will then discharge to meet energy demand where generation is not enough alone.

By default, the system is configured to achieve 'Grid Neutrality', this is to efficiently minimise energy import and export and decrease the carbon footprint whilst reducing your energy bill.

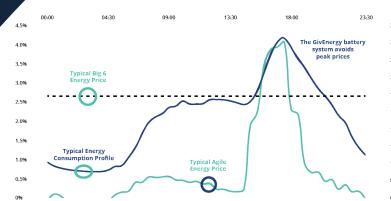


Agile Octopus

GivEnergy has created an automated platform that is compatible with various multi rate tariffs, such as Octopus Agile.

With variable half-hourly energy rates, tied to wholesale prices, Agile Octopus rewards its customers for using more energy when the grid is chock full of green, renewable generated electrons, and less when the grid is at its dirtiest (usually between 4-7pm on weekdays).





AC Coupled Specifications

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
 50 Hz + 5 Hz

 Power Factor at Rate Power
 1

 Power Factor
 0.9 Leading...0.9 Lea

0.9 Leading...0.9 Lagging <3%

Screw Terminal

Screw Terminal

AC Connection Single Phase (multiple units can be installed for 3 phase)

Battery Power

THDI

Nominal Power 3000W Max Charging / Discharging Current 60A / 60A

Backup Output

Output Rated Power 3000VA
Peak Power 3600VA,10s
Output Voltage 230Vac +2%, 50Hz
(60Hz Optional) +0.28. 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 25A RMS Max Output Overcurrent Protection All Pole Sensitive Leakage Current Monitoring Yes

General Data

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

Features

PV Monitoring
CT / Meter
Grid Monitoring

19 Kg
-25°C to 60°C with Derating above 45°C

SW / <0.5W
Transformerless
Natural
IP65

Features

PV Monitoring
CT / Meter
Meter

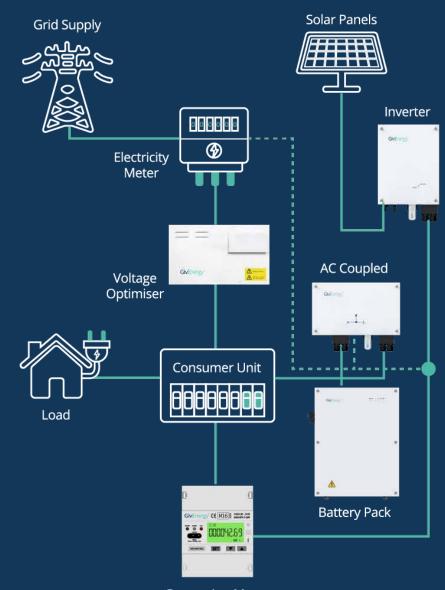
PV Monitoring
Grid Monitoring
Battery Connection
AC Connection
Display
Interfaces: WiEi / LISB / GPRS / RS485 / 4G

Display LED
Interfaces: WiFi / USB / GPRS / RS485 / 4G Opt / Yes / Opt / Yes / Opt
Warranty: 5 Years / 10 Years Yes / Opt

Certificates and Approvals

AA4777, VDE-AR-N4105, VDEO126, G98, G99, IEC2109-1-2, IEC62040, EN61000-6-2, EN61000-6-3, EN50549, G100

How an AC Coupled Inverter works



Generation Meter

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Giv-Bat 2.6



The 2.6kWh 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. Due to its light weight, it is ideal for installation in lofts and hard to access areas and can be banked together to increase capacity.

- Using the latest LiFePO₄ prismatic cell technology (>20yrs lifespan)
- 10 Year guarantee
- 0.5C (1300W) charge and discharge rate
- Active cell balancing
- Active BMS systems allowing greater control and functionality

- Remote firmware updates
- 90% depth of discharge
- Robust carry handles to aid with lifting and installation
- IP65 (suitable for loft and external installation)
- · Wall mounted or floor standing

Technical Specifications

Model Bat 2.6

Capacity
Voltage
Current
Technology
IP Grade
BMS
Life Cycling (90% DOD, 25°C)
Operating Temperature
Storage Temperature
Warranty BTT
Standard
Weight

Electrical Parameters

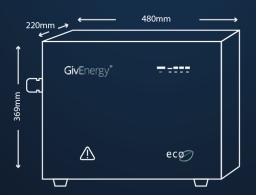
Operating Voltage Range Maximum Charging Voltage Maximum Charging / Discharging Current Network Interface Communication Protocols Advantages Depth of Discharge 2.6kWh / 51Ah
51.2V DC
30A Charge / Discharge
LiFePO₄ Cell
IP65
Robust Multi Point Monitoring BMS Pre Installed
10 Years
-10°C - 55°C
-30°C - 60°C
26MWh / 10 Years
UN 38.3, IEC61000
32 Kg

30A / 30A RS485 Modbus Stackable, BMS Upgradeable, IP65

43.2V - 58.5V DC

59V

90%



Giv-Bat 5.2



The 5.2kWh 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.

- Using the latest LiFePO₄ prismatic cell technology (>20yrs lifespan)
- 10 years guarantee
- 0.5C (2600W) charge and discharge rate
- Active cell balancing
- Active BMS systems allowing greater control and functionality

- Remote firmware updates
- 100% depth of discharge
- Robust carry handles to aid with lifting and installation
- Can be installed alongside other GivEnergy battery packs (Mix & Match)
- · Wall mounted or floor standing

Technical Specifications

Model Bat 5.2

Capacity
Voltage
Current
Technology
IP Grade
BMS
Life Cycling (90% DOD, 25°C)
Operating Temperature
Storage Temperature
Warranty BTT
Standard
Weight

Electrical Parameters

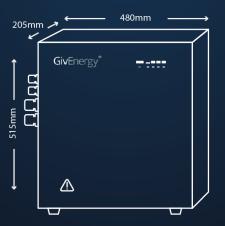
Operating Voltage Range Maximum Charging Voltage Maximum Charging / Discharging Current Network Interface Communication Protocols Advantages Depth of Discharge 5.2kWh / 102Ah
51.2V DC
60A
LiFePO₄ Cell
IP65
Robust Multi Point Monitoring BMS Pre Installed
10 Years
-10°C - 55°C
-30°C - 60°C
52MWh / 10 Years
UN 38.3, IEC61000
54 Kg

60A / 60A RS485 Modbus Stackable, BMS Upgradeable, IP65

43.2V - 58.5V DC

59V DC

100%



Giv-Bat 8.2 Unlimited



The 8.2kWh 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.

- Using the latest LiFePO₄ prismatic cell technology (>20yrs lifespan)
- 10 years unlimited cycle guarantee
- 0.5C (4100W) charge and discharge rate
- Active cell balancing
- Dual BMS systems allowing greater control and functionality

- Remote firmware updates
- 100% depth of discharge
- Robust carry handles to aid with lifting and installation
- Can be installed alongside other GivEnergy battery packs (Mix & Match)
- Wall mounted or floor standing

Model Bat 8.2

Capacity
Voltage
Current
Technology
IP Grade
BMS
Life Cycling (90% DOD, 25°C)
Operating Temperature
Storage Temperature
Warranty BTT
Standard
Weight

Electrical Parameters

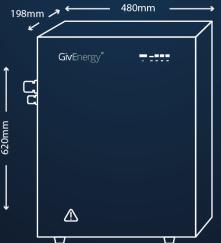
Operating Voltage Range Maximum Charging Voltage Maximum Charging / Discharging Current Network Interface Communication Protocols Advantages Depth of Discharge 8.2kWh / 160Ah
51.2V DC
85A
LiFePO₄ Cell
IP65
Robust Multi Point Monitoring BMS Pre Installed
10 Years
-10°C - 55°C
-30°C - 60°C
Unlimited Cycles / 10 Years
UN 38.3, IEC61000
94 Kg

RS485 Modbus Stackable, BMS Upgradeable, IP65 100%

43.2V - 58.5V DC

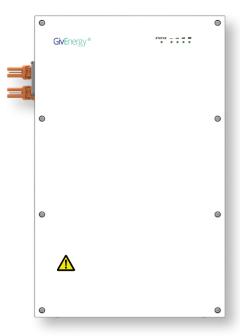
59V DC

85A / 85A



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Giv-Bat 9.5



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.

- Using the latest LiFePO₄ prismatic cell technology (>20yrs lifespan)
- 10 years unlimited cycle guarantee
- 0.5C (4100W) charge and discharge rate
- Active cell balancing
- Dual BMS systems allowing greater control and functionality

- Remote firmware updates
- 100% depth of discharge
- Robust carry handles to aid with lifting and installation
- Can be installed alongside other GivEnergy battery packs (Mix & Match)
- Wall mounted or floor standing

Technical Specifications

Model Bat 9.5

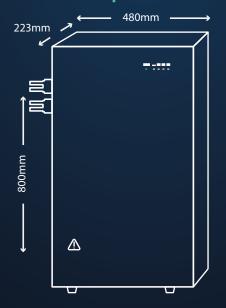
Capacity
Voltage
Current
Technology
IP Grade
BMS
Operating Temperature (Charge)
Operating Temperature (Discharge)
Storage Temperature
Warranty BTT
Standard
Weight
Protection (DC)

Electrical Parameters

Operating Voltage Range
Maximum Charging Voltage
Maximum Charging /
Discharging Current
Network Interface
Communication Protocols
Advantages
Depth of Discharge

9.5kWh / 186 Ah
51.2V DC
80A
LiFePO₄Cell
IP65
Robust Multi Point Monitoring BMS Pre-Installed
0°C - 50°C
-10°C - 50°C
-30°C - 60°C
Unlimited Cycles / 10 Years
UN 38.3, IEC61000
110 Kg
Inbuilt 100A DC MCB

RS485 / USB Modbus Stackable, BMS Upgradeable, IP65 100%



59V DC

80A.80A

Power Diverter

New to our range of products, the GivEnergy Power Diverter is designed to divert excess energy or cheap rate electricity to other devices instead of sending it back to the grid. It can be used with any GivEnergy battery storage systems or on its own.

On its own, it can make use of split rate energy tariffs automatically and connects directly to the GivEnergy Portal.

The GivEnergy App and Portal provides an overview of your energy usage, generation and battery. If paired with our battery systems, you can prioritise utilisation of excess energy or split your energy between the two systems.



Our GivEnergy power diverter boasts a maximum power of up to 16A. It comes with a remote monitoring and override feature, giving you full control of your water. It is compatible with our GivEnergy inverters and any resistive load.

- Up to 16A Maximum power
- Pulse width modulation
- IP20
- Remote monitoring
- Override feature
- Compatible with GivEnergy inverters
- Compatible with any resistive load



PV Protect

The PV Protect offers the ability to switch off the DC cables in your house when the mains is isolated.

The DC energy runs through the device before entering the inverter. In the event of a grid outage, it will disconnect the solar DC from the inverter, ensuring that there are no live DC cables running through the property. It acts as a fireman's switch to isolate DC in an emergency, and allows emergency services (if required) to enter the property through the roof without risk of electric shock.

The PV Protect is a mandatory type device for those wishing to claim the SEAI grant in Ireland.

- Fully compliant with SEAI
- Dual MPPT input 800V DC 20A
- High voltage automatic DC connector relay
- Disconnects PV supply when grid fails
- Automatically reinstates PV supply when grid is stable
- Programmable time delay
- Programmable grid settings
- Standard 5 year warranty
- Non invasive, low maintenance requirement









Input Data (DC)

DC Input Min/Max Voltage DC Nominal Current Max DC Short Circuit Current Terminals MPPT

AC

AC Working Voltage
Voltage Protection
Overvoltage Setting Range
Low Voltage Setting Range
Voltage Recovery Time Setting Range
Self Consumption
MCB
AC Supply Connection

Electrical Parameters

Dimensions (W x H x D) mm Installation Weight Working Temperature IP Warranty 50V - 800V 20A per string 750A MC4-IP65 2 (In and Out)

230Vac 50 Hz Single Phase Programmable 220Vac - 290Vac 150Vac - 219Vac 1s - 256s <5W 6 to 16A 1A

310 x 200 x 93.5 Wall Mounted 3.8 Kg -20°C - 50°C IP20 / IP67 Available 5 Years, Parts Only



Electrical Parameters

Input (Volts)

Output (Volts)

Max Load Dimensions (W x H x D) mm Weight **Operating Temperature** Terminal Capacity

Miniature Circuit Breaker **Ingress Protection** Cable Entry

Standards Warranty

Nominal Input Voltage 230V + 10% - 6%, 50Hz, Single Phase AC Nominal Input Voltage Less 6V, 12V or 18V (selectable) 63A 450 x 280 x 110

18 Kg -5°C - 55°C

Incoming Live and Neutral $= 35.0 \text{mm}^2$

63Amp 6kA Type to BS EN 60898 IP20

Bottom - 2 x 25mm Compression Glands MCBs to BS 60947-2

5 Years

Voltage Optimiser

The Voltage Optimiser is ideal for homes where the grid voltage is too high. It regulates the incoming power supply by reducing the voltage supplied to the optimum level, by a choice of either 6V, 12V or 18V. This helps to prolong the life of sensitive devices (TVs, laptops, etc) that run on a lower voltage through a transformer.

- Digital display to show output voltage
- Built in voltage protection
- Simple installation
- Thermal protection
- Prevents wear on appliances caused by electrical oversupply
- Amendment 3 Compliant
- Saves money on your electricity bills
- Works with, and improves efficiency of electronic devices
- Manufactured to the highest British manufacturing standards





The GivEnergy EM115 Meter is used as a monitoring point and is a Class 1 MID approved single phase Modbus energy meter with CT clamp, which can be used for direct metering up to 100A. Ideal for PV energy metering, this product offers bi-directional energy measurement and direct/CT connection. The meter features an LCD display with a clear green backlight.

- MID approved when used with solid core
 50 pulse output CT to appendix 'B' and 'D' certification
- Single phase metering 1 din modules
- Direct metering up to 100A
- LCD display, 6 integer, 2 decimal, meter display when power fails
- Clear green backlit display
- Bi-directional energy measurement this meter is ideal for Solar PV energy metering
- Solid or split CT options

- Modbus RTU with 16 bit CRC
- 1, 2, 3 and 4 tariff meter option
- Accuracy class B according to EN50470-3
- Accuracy class 1 according to IEC62052-21
- Memory back-up (EEProm)
- Import / export generation and consumption
- NET metering to comply with OFGEM regulations on co-located storage

Technical Specifications

Characteristics

Type of Measurement

Rated Current Rated Voltage Frequency (Hz) Maximum Current Maximum Value Measured **Power Consumption** Current Terminals Flexible 1xmm² RS485 Cable Comms Terminal Flexible 1xmm² Pulse 1 Width (ms) Pulse 1 Constant (imp / kWh) Pulse 2 Constant (imp / kWh) Dimensions (W x H xD) mm **Operating Temperature** Storage Temperature

Voltage, Ampere, kW, PF, Hz, +/- kWh, L kWh, +/- kvarh 5A 230V 50Hz / 60Hz 100A 999999.99kWh <1.3W 0.01VA 0 - 16mm² AWG18 0 - 2.5mm² 80 1000 0.001 / 0.01 / 1 18 x 104.5 x 88 -25°C - 55°C

-40°C - 70°C



Metering EM418

The GivEnergy EM418 Meter is a Class 1 MID approved billing meter. It can be used in conjunction with GivEnergy's inverters for generation and import/export. It allows energy providers and PPA providers to gather generation data remotely. It features a large screen and buttons for ease of use.

- MID approved with appendix 'B' and 'D' certification
- Single phase metering 4 din modules
- Direct metering up to 100A
- Clear green backlit display
- LCD display, 6 integer, 2 decimal, meter display when power fails

- 50 pulse output
- Modbus RTU with 16 bit CRC
- 1, 2, 3 and 4 tariff meter option
- Accuracy class B according to EN50470-3
- Accuracy class 1 according to IEC62052-21
- Memory back-up (EEProm)

Technical Specifications

Characteristics

Type of Measurement
Rated Current
Rated Voltage
Frequency (Hz)
Maximum Current
Maximum Value Measured
Power Consumption
Current Terminals Flexible 1xmm²
RS485 Cable
Comms Terminal Flexible 1xmm²

Time of Use

Rates

Separate Import / Export Registers Programmable Special Days Time-Keeping Accuracy Power Off Clock Running Time Dimensions (W x H xD) mm Operating Temperature Storage Temperature

Modbus Serial Comms

Protocol Baud Rate (BPS) Bus Loading (PCS) Voltage, Ampere, kW, PF, Hz, +/- kWh, L kWh 100A 230V 50Hz / 60Hz 100A 999999.99kWh <2W 10VA 0 - 16mm² AWG18 0 - 2.5mm²

0~4 585 64 <0.5s / Day >5 Years 76 x 104.5 x 60 -25°C - 55°C -40°C - 70°C

Modbus RTU with 16 Bit CRC 1200, 2400, 4800, 9600 (Default) W <64

Dongles

Our GivEnergy dongles are available as WiFi or 4G for our Inverters and Power Diverter.

WiFi – Connect your devices to the internet with our WiFi dongle and allow your devices to seamlessly interact with each other. Update your firmware over-the-air effortlessly. Our dongles are supplied as part of our standard packages.

4G – Our SIM enabled dongles allow our devices to connect using 4G. 3G, and GPRS. Suitable for social housing providers or where WiFi is not available. Data allowances vary depending on the chosen package.

- Flexible monitoring through the GivEnergy App and Web Portal
- Built in flash memory
- IP65



4G Module

Port Type SIM Card Type Frequency Range Antenna Gain Operation Voltage Operation Current Instantaneous Max. Power Statics Power

WiFi

Wireless Type Frequency Range Antenna Gain WLAN Default IP Default Server URL

Security

Security Mechanism Encryption

General Data

Max. Communication Distance Dimensions (W x H x D) mm Weight Operation Temperature Certification Warranty USB Micro GSM 900 - 1800 MHz 3,0dBi 5V 400 mA <2W <1W

802.11b/g/n 2.412GHz - 2.484GHz 2.5dBi 192.168.10.100 Server.GivEnergy,Cloud

WEP / WPA-PSK / WPA2-PSK / WAPI WEP64 / WEP128 / AES / TKIP

50m (Cross One Wall) 79 x 135 x 29 63 grams -25°C - 55°C FCC / CE 5 Years

GivEnergy Monitoring Portal

The GivEnergy Monitoring Portal gives you full control over your energy. Featuring a customisable interface, your dashboard is unique to you. Display your energy data exactly how you want on your phone, tablet or computer.

Smart Integration

Monitor all of your electronic devices in one place with Smart Integration. Integrate third party products with the GivEnergy Portal and control your devices from anywhere.





EV Compatible

Control your electric vehicle (EV) charger from the dashboard. Monitor and select your charge point, and display the latest information about your vehicle.

Key Features:

- Easy to use dashboard for quick information on the battery syster
- Easily monitor house consumption, grid usage and solar generation
- Monitor state of charge and battery health
- Graphs displaying your power usage and energy usage
- Zoom into graphs to view detailed nower values
- Remotely control your system and battery to charge/discharge
- Integrate with Octopus Agile, Go and Go Faster

Agile Octopus Optimised

Charge your battery during off-peak times, discharge when energy rates are more expensive, or sell any excess back to your energy provider*. Maximise your battery's potential with an Octopus Energy smart tariff and configure your energy usage around your lifestyle.

* An export agreement must be in place with your energy provider in order to sell energy to them.



GivEnergy App

The GivEnergy App provides basic information about your Home Energy Demand, Solar PV Generation, Grid Import Energy and GivEnergy Battery Usage.

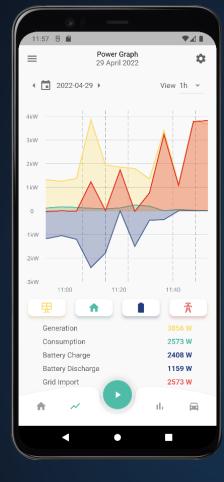


Save on the go

Control your energy while you tend to your daily tasks and have free peace of mind that your energy is being used efficiently while inside and outside of your home.











GivEnergy®

Call: 01377 252 874 www.GivEnergy.co.uk

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