



Our commercial systems are designed for installation in commercial or industrial applications.

An ideal solution for those who need more storage capacity and power, whether it is a large commercial/industrial building or a containerised solution.

Utilising Lithium Iron Phosphate our batteries are extremely safe and can be installed in a wide range of locations. The battery chemistry does not contain Cobalt, making it non-flammable and the battery pack is 99% recyclable.

COMPONENTS

10 x	Battery Racks
2 x	500 kW PCS
2 x	DC cabinet, EMS
1 x	40ft container
Meters and CT clamps	

CONTAINER SPECIFICATION

40ft	Length	Width	Height	Weight
External	12192mm	2438mm	2591mm	45090kg

TOTAL SYSTEM CAPACITY

1MW/2MWh

Battery Rack

Commercial

200KWH BATTERY RACK

Dimensions (WxDxH)	1458 x 640 x 2050mm
Weight (without batteries)	200 kg
Advantages	Robust steel frame Pre-drilled fixing points on all sides

HIGH VOLTAGE BOX

Dimensions (WxDxH)	483 x 692 x 221mm
Weight	40kg
Nominal Voltage	730V DC
Voltage Range	600 - 850V DC
Safety	Robust Multi Point Monitoring BMS On/Off button and DC MCB
Connections	AC Supply DC Input DC Output CAN bus in CAN bus out
Communication Protocol	CAN bus

10.8KWH BATTERY

Dimensions (WxDxH)	483 x 692 x 221mm
Weight	89kg
IP Grade	IP20
Nominal Voltage	38.4V DC
Voltage Range	33.6 - 43.8V DC
Chemistry	LiFePO ₄
Rated Capacity	280Ah
Nominal Capacity	10.752kWh @25°C
Depth of Discharge	80%
Operating Temperature	0°C - 55°C*
Connections	+ and - DC power 2 x CAN bus
Safety	Robust Multi Point Monitoring BMS
Communication Protocol	CAN bus
Warranty	70% remaining capacity after the first of 10 years or 10MWh per kWh throughput

*Charge/discharge rate and capacity reduced at lower and higher temperatures



Our Power Conversion System (PCS) provides a wide range of operating modes to meet the requirements of your installation.

Compatible with our high voltage battery packs, almost any size of storage capacity is possible. Built-in black start functionality can provide resilience to sites with power supply taken from both AC and DC to ensure they can always stay energised.



Flexible Control

Control and monitor the system via GivEnergy cloud or via an external signal.



Adjustable Power Rating

With our EMS, control the charge and discharge rates based on pre-defined parameters.



Industrial & Commercial

Suitable for a wide range of applications. Can be installed internally or in a custom-built container.



Modular Design

Need a larger capacity? Modular design allows for multiple units to be installed in parallel.

PCS with Transformer

MODEL GIV-PCS-500T

AC (ON-GRID)

Rated Voltage	400V
Voltage Range	320V - 460V
Rated Frequency	50 / 60Hz
Rated Power	500kW
Max. Output Power	550kVA
Rated Current	722A
Max. Output Current	800A
Efficiency	97.5%
Total Harmonic Distortion (THDi, rated Power)	<3%
Power Factor	1 Lagging -1 Leading
AC Connection	3L + N + PE

AC (OFF-GRID)

Rated Voltage	400V
THDU	<1% linear <5% non-linear
Rated Frequency	50 / 60Hz
Overload Capability	110%-continuous

DC PARAMETERS (BATTERY)

Battery Voltage Range	500V - 850V
Max. Current	1200A

GENERAL DATA

Dimensions (W x H x D)	1600 x 1050 x 2050mm
Weight	2460kg
IP Grade	IP21
Frequency Range	45 - 55 / 55 - 65Hz
Noise Emission	< 65dB
Operating Temperature	-30°C - 55°C
Cooling	Forced Air
Relative Humidity	0-95% non-condensing
Max. Altitude	5000m (derated above 3000m)
Topology	Transformer Based
On/Off Grid Transfer	Manual (default) - Automatic (Optional)

COMMUNICATION

Display	Touch Screen LCD
BMS Interface	RS485/CAN
Device Interface	RS485, TCP/IP
Certificates	CGC TUV