



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

ALL MODELS

AC (ON-GRID)

Rated Voltage	400V
Voltage Range	320V - 460V
Rated Frequency	50 / 60Hz
Frequency Range	45 - 55 / 55 - 65Hz
Total Harmonic Distortion (THDi, Rated Power)	<3%
PF	1 lagging - 1 leading
AC Connection	3 L + N + PE

AC (OFF-GRID)

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

GENERAL DATA

Protection Degree	IP21
Noise Emission	<65dB
Operational Temperature	-30°C - 55°C
Cooling	Forced Air
Relative Humidity	0-95% non-condensing
Max. Altitude	5000m (derated above 3000m)
Transformer	Yes
Self-consumption	<10W
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

GIV-PCS-030T

Battery Voltage Range	300V - 850V
Max. Current	43A
Max. Output Power	33kVA
Rated Power	30kW
Rated Current	43A
Max. Output Current	48A
Efficiency	96.3%
Dimensions (WxDxH)	800 x 800 x 2050mm
Weight	600Kg

GIV-PCS-050T

Battery Voltage Range	300V - 850V
Max. Current	167A
Max. Output Power	55kVA
Rated Power	50kW
Rated Current	72A
Max. Output Current	80A
Efficiency	96.5%
Dimensions (WxDxH)	800 x 800 x 2050mm
Weight	650Kg

GIV-PCS-100T

Battery Voltage Range	300V - 850V
Max. Current	334A
Max. Output Power	110kVA
Rated Power	100kW
Rated Current	144A
Max. Output Current	160A
Efficiency	97.1%
Dimensions (WxDxH)	800 x 800 x 2050mm
Weight	910Kg

GIV-PCS-150T

Battery Voltage Range	300V - 850V
Max. Current	501A
Max. Output Power	165kVA
Rated Power	150kW
Rated Current	216A
Max. Output Current	240A
Efficiency	97.2%
Dimensions (WxDxH)	800 x 800 x 2050mm
Weight	950Kg

GIV-PCS-250T

Battery Voltage Range	400V - 850V
Max. Current	570A
Max. Output Power	275kVA
Rated Power	250kW
Rated Current	361A
Max. Output Current	400A
Efficiency	97.3%
Dimensions (WxDxH)	1200 x 800 x 2050mm
Weight	1350Kg

GIV-PCS-500T

Battery Voltage Range	500V - 850V
Max. Current	1200A
Max. Output Power	550kVA
Rated Power	500kW
Rated Current	722A
Max. Output Current	800A
Efficiency	97.5%
Dimensions (WxDxH)	1600 x 1050 x 2050mm
Weight	2460Kg