AC Coupled

Giv-AC3.0

- Installed to new builds or retrofitted to an existing solar pv system
- Charge the batteries directly from Solar PV by measuring the existing PV system via a CT
- Batteries can be charged directly from the Grid
- Remote software updating via Wi-Fi dongle
- Monitor your usage and generation through Web and APP interface
- Designed to be Lightweight and compact and to maximise self-consumption and minimise imported electricity
- Monitoring home usage with Integrated smart metering for an accurate reading

Dimensions (W/H/D)	480*290*260mm
Weight	19kg

GivEnergy®

Specification

AC Coupled
Giv-AC3.0

Output Data (AC)

Nominal AC output power	3000W
Max AC apparent power	3000VA
Max output current	15A
AC nominal voltage; range	220V/230V/240V;180Vac-280Vac
AC grid frequency; range	50,60Hz;±5 Hz
Power factor at rate power	1
Power factor	0.9 leading...0.9 lagging
THDi	<3%
AC connection	Single phase(can be linked for three phase)

Battery

Battery type	$LiFePO_4$
Nominal Power	3000W
Norminal voltage	51.2V
Max discharging /charging power	3000W
Charging curve	3-stage adaptive with maintenance
Operating voltage range	46.4-57.6V
Max charging/discharging current	60A / 60A

Backup Output

Output rated power	3000VA
Peak power	3600VA,10s
Output voltage	230Vac ±2%, 50Hz (60Hz Optional)±0.2%,THDV<3% (linear load)

Efficiency

Max efficiency	97.10%
Euro-ETA	96.5%

GivEnergy®

Specification

AC Coupled
Giv-AC3.0

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
Integrated all pole sensitive leakage current monitoring unit	Yes

General Data

Dimensions (W / H / D)	480*290*260mm
Weight	19kg
Operating temperature range	-25°C to 60°C (-13°F to 140°F) With derating above 45°C
Noise emission (typical)	⩽ 25 dB(A)
Altitude	Up to 2000m(6560ft)Without power derating
Relative humidity	95%
Consumption: operating (standby) / night	<5W / < 0.5 W
Topology	Transformerless
Cooling concept	Natural
Environmental Protection Rating	IP65

Features

PV connection	No
Battery connection	Screw terminal
AC connection	Screw terminal
Display	LED
Interfaces:Wi-Fi/USB/GPRS/RS485/4G	Opt/Yes/Opt/Yes/Yes
Warranty	5 years / 10 years (Optional)/15years (Optional)

Certificates

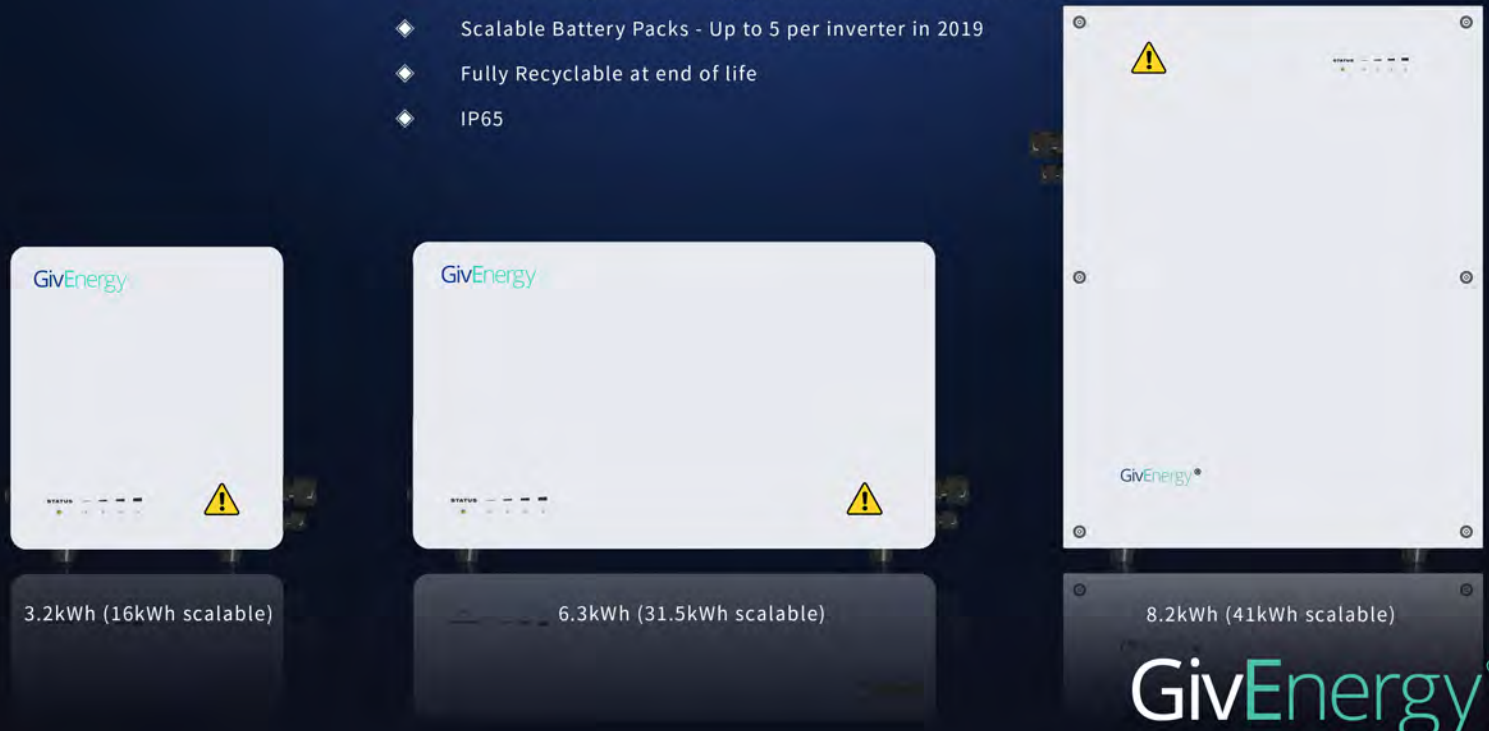
AS 4777, VDE-AR-N4105, VDE0126, G83, G98, IEC62109-1-2, IEC62040, EN61000-6-2, EN61000-6-3,EN50438

GivEnergy®

Battery Storage

$LiFePO_4$

- Using the latest $LiFePO_4$ prismatic cell technology
- Warranted throughput of 10 MWh per 1kWh of stored capacity
  Or 10 Years, Whichever comes first
- 0.5C-1C charge and discharge rate
- 170Wh per Kg +/- 5%
- Active BMS system allowing greater control and functionality
- Scalable Battery Packs - Up to 5 per inverter in 2019
- Fully Recyclable at end of life
- IP65



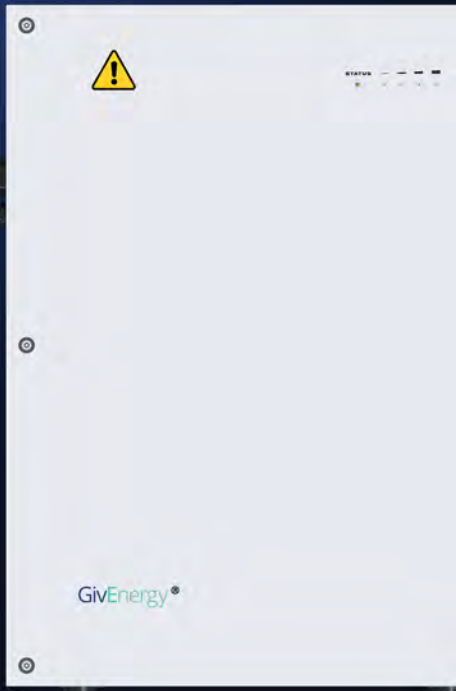
GivEnergy®

Specification

LiFePO$_4$ Battery

Model	Giv-Bat3.2	Giv-Bat6.3	Giv-Bat8.2
Capacity	3.2kWh	6.3kWh	8.2kWh
Voltage	51.2VDC	51.2VDC	51.2VDC
Current	61.5Ah	123Ah	161Ah
IP Grade	IP65	IP65	IP65
BMS	Robust multi point monitoring BMS pre installed		
Life cycling (80% DOD, 25°C)	10years		
Operation temperature	0°C~45°C		
Storage Temperature	-30°C~60°C		
Warranty BTT	32MWh	63MWh	82MWh
	10 years, whichever comes sooner		
Standard	UN 38.3, IEC61000		
Weight	28kg	53kg	74kg
Dimensions	380*340*191mm	690*390*182 mm	480*620*220 mm
Electrical Parameters			
Operating voltage	44.4VDC-57.6VDC		
Maximum Charging Voltage	60VDC		
Maximum charging/ Discharging current	60A/60A		
Network Interface	RS485		
Communication Protocols	Modbus		
Advantages	Stackable, BMS upgradeable, *IP65		

Cell Technonlogy Prismatic LiFePO$_4$



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