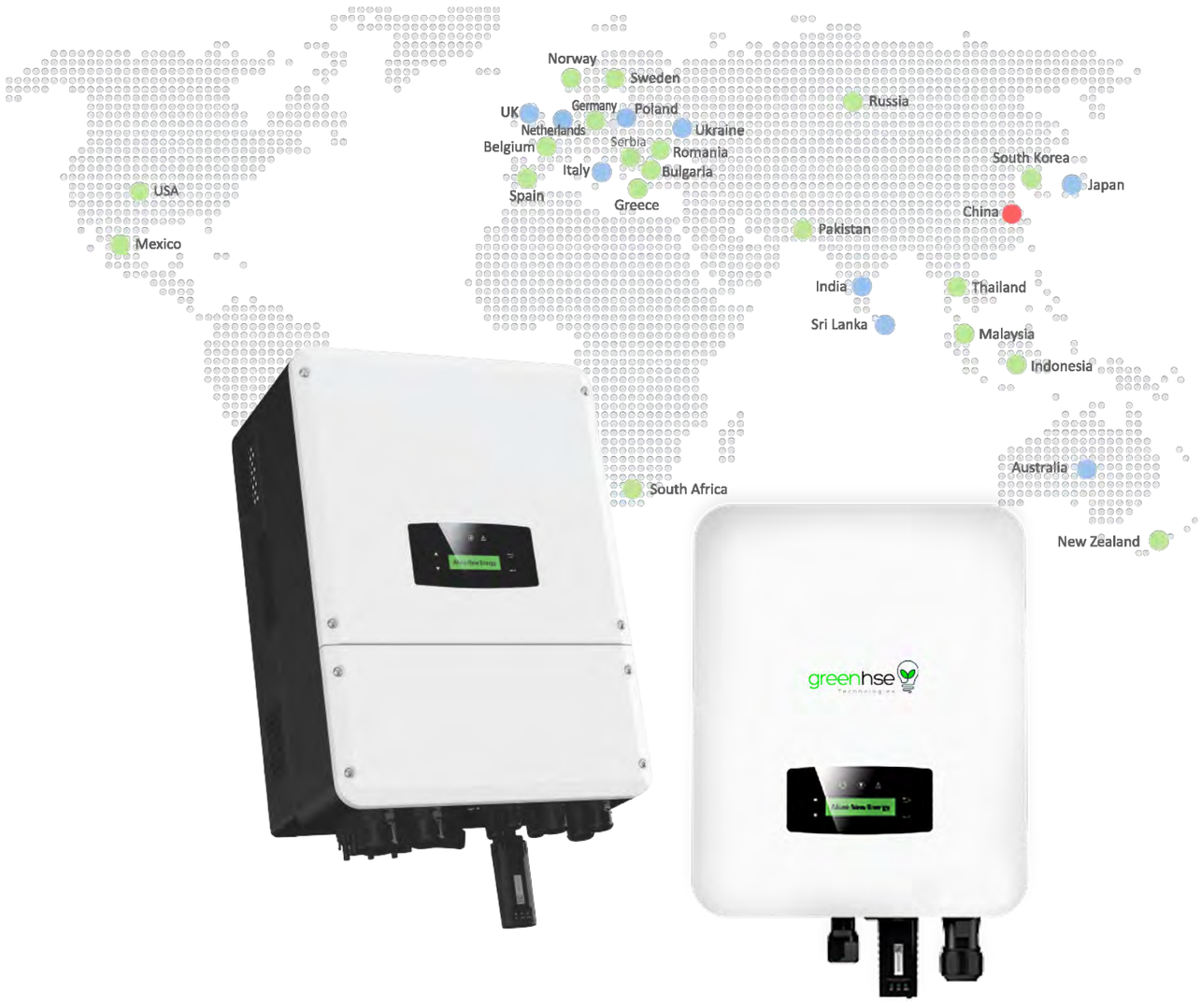
GH-B16A Battery
Energy Storage Solutions
GH-Hybrid Inverters



greenhse Technologies

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5/1 Locke Lane, Ellenbrook, WA Australia 6069

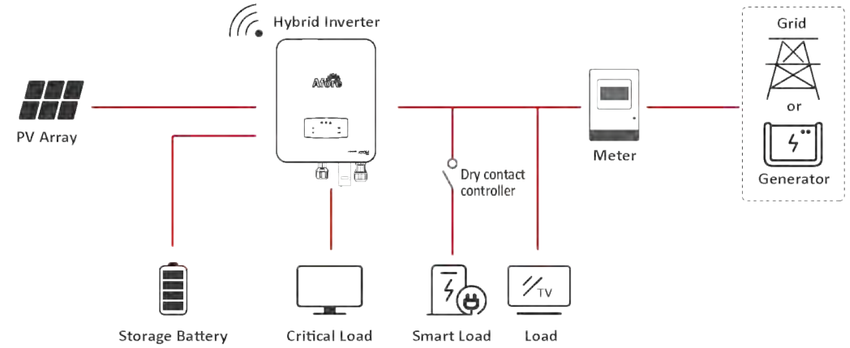
EUPD RESEARCH TOP BRAND PV INVERTERS POLAND 2025

EUPD RESEARCH TOP BRAND PV INVERTERS ITALY 2025

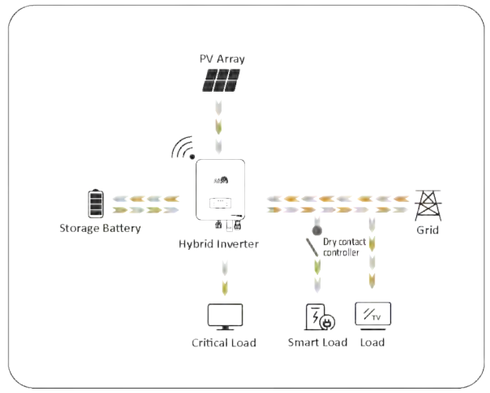
greenhse Technologies

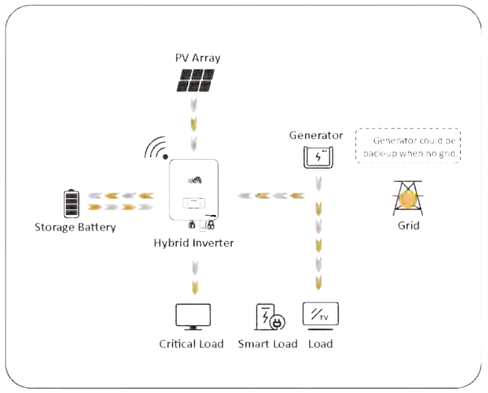
GH Single Phase Home Energy Storage System

For New Storage System:



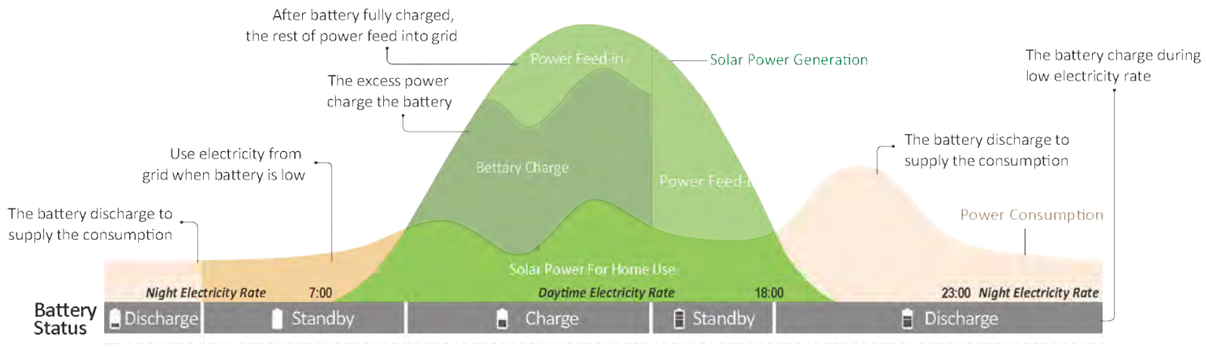
Optimizing Self-Consumption (on-grid) + Emergency Power Supply(off-grid)





Optimizing Self-Consumption Mode

With home energy storage installed, home owners may also be able to change from a flat rate electricity tariff to a time-of-use tariff. For the areas and regions, where peak savings can be applied.



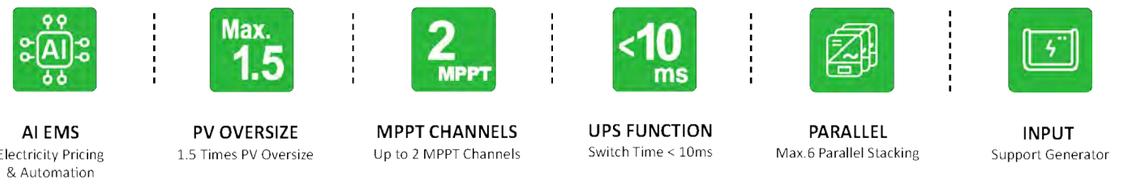
Single Phase Hybrid Storage Inverter

6kW

The GH6K-SL Low voltage series storage Inverters are designed to increase energy independence for homeowners. The power range is from 1kW to 3.6kW, compatible with low voltage (40-60V) batteries.

Energy management is based on time-of-use and demand charge rate structures, which significantly reduce the amount of energy purchased from the public grid.
Thanks for the UPS function (switch time < 10ms), that enables the crucial loads power on during outages. Additionally, under the backup operation mode, the inverter provides you up to 150% peak output overloading.

The GH6K-SL storage inverter features Smart Electricity Pricing & Automation, an energy management tool based on real-time electricity pricing strategies. It continuously monitors electricity price fluctuations and dynamically adjusts device operation accordingly. Operating 24/7 fully automatically without the need for manual intervention, it helps users optimize their electricity usage and reduce energy costs.



AI EMS
Electricity Pricing & Automation

PV OVERSIZE
1.5 Times PV Oversize

MPPT CHANNELS
Up to 2 MPPT Channels

UPS FUNCTION
Switch Time < 10ms

PARALLEL
Max.6 Parallel Stacking

INPUT
Support Generator

- Support for Time-of-use Optimization
- Configurable Operation Modes
- AFCI (Optional) & Rapid Shutdown Ready
- Build in Anti-feed-in Function
- Compact Size and Easy Installation
- Smart Monitoring & Remote Firmware Upgrade

GH6K-SL

TECHNICAL SPECIFICATIONS

PV Input	
Ppv Max (W)	9000
Vmax PV (V) (Absolute max)	550
Min. Operating Voltage (V)	100
Start-up Voltage (V)	100
MPPT Voltage Range (V)	80-500
Vdc range @ full power (V)	170-500
Isc PV (Absolute Max.) (A)	26 x 2
Max. PV input current (A)	18.5 x 2
Number MPP Trackers	2
Number Input Strings	1/1
Battery Charge	
Battery Type	Li-ion/Lead -acid
Battery Normal Voltage Range (Vdc)	51.2V (40-60V)
Max charge / Discharge Current (A)	80
Max charge / Discharge Power (W))	4800
AC Grid (Input and Output) & (Stand Alone)	
Normal AC Voltage	L/N/PE, 230Vac
Frequency (Hz)	50
Nominal AC Current (A)	26.1
Max. cont. input/output Current (A)	28
Rated Power (W)	6000
Max. cont. Power (W)	6000
Power Factor	1.0 (-0.8~+0.8 adjustable)
Max. Efficiency (%)	97.6
Others	
Ingress Protection (IP)	IP65 Class 1
Temperature	-25°C to +60°C (Derating 45°C)
Protective Class	Class I
Inverter Isolation	Non-isolated (PV-AC-BAT)
Over-Voltage Category	OVC III (AC Main), OVC II (PV)
Maximum Altitude	2000
Weight (kg)	17
Dimensions (WxHxD)mm	370 x 513 x1 92mm
Firmware	V06

Single Phase Hybrid Storage Inverter

10kW

The GH10K-SL Low voltage series storage Inverters are designed to increase energy independence for homeowners. The power range is from 7kW to 12kW, compatible with low voltage (40-60V) batteries.

Energy management is based on time-of-use and demand charge rate structures, which significantly reduce the amount of energy purchased from the public grid.

The UPS function (switch time < 10ms), enables the crucial loads power ON during outages. Additionally, under the backup operation mode, the inverter provides you with up to 150% peak output overloading.

The GH10K-SL energy storage inverter features Smart Electricity Pricing & Automation, an energy management tool based on real-time electricity pricing strategies. It continuously monitors electricity price fluctuations and dynamically adjusts the device operation accordingly. Operating 24/7 fully automatically without the need for manual intervention, it helps users optimize their electricity usage and reduce energy costs.

AI EMS
Electricity Pricing & Automation

MAX. 370A
Max. Charge/ Discharge Current 370A

PV OVERSIZE
1.5 Times PV Oversize

MPPT CHANNELS
Up to 2 MPPT Channels

UPS FUNCTION
Switch Time < 10ms

PARALLEL
Max.6 Parallel Stacking

INPUT
Support Generator

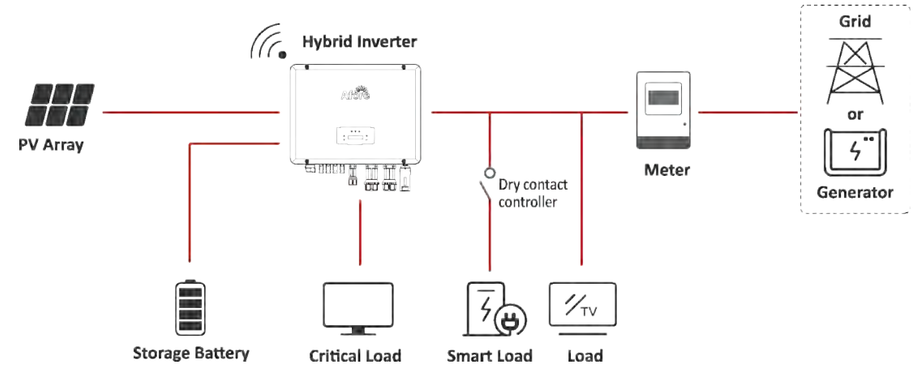
- Higher Yields
- Support for Time-of-use Optimization
- Configurable Operation Modes
- AFCI (Optional) & Rapid Shutdown Ready
- Build in Anti-feed-in Function
- Compact Size and Easy Installation
- Smart Monitoring & Remote Firmware Upgrade

GH10K-SL

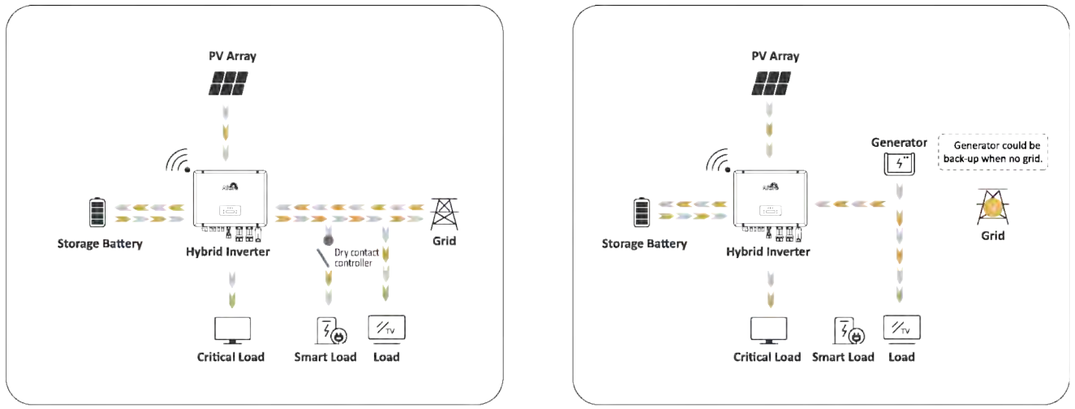
TECHNICAL SPECIFICATIONS

PV Input	
Max. Input Power (kW)	15
Max. PV Voltage (V)	950
MPPT Range (V)	80-900
Normal Voltage (V)	650
Start up Voltage (V)	100
Max. Input current (A)	26 + 18.5
Max Short Current (A)	32 - 25
No. of MPP Tracker / No. of PV String	2/2
Battery Port	
Battery Type	Li-ion/Lead -acid
Battery Normal Voltage Range (V)	51.2V (40-60V)
Max charge / Discharge Current (A)	310
Normal charge / Discharge Current (A)	250
AC Grid	
Max. Cont. input/output Current (A)	46
Max. Cont. Power (kVA)	10
Nominal Grid Current (A)	46/44
Max. Peak Current (A) 60s	68/66
Nominal Grid Voltage (V)	220/230
Nominal Grid Frequency (Hz)	50/60
Power Factor	1
Protection	
PV Reverse Polarity Protection	Yes
Bat. Reverse Polairty Protection	Yes
Over-Current/ Voltage Protection	Yes
Anti-Islanding Protection	Yes
AC Short Circuit Protection	Yes
Residual Current Detection	Yes
Ground Fault monitoring	Yes
PV Arc Detection	Yes
Enclosure Protect Level	IP66
AC/DC Surge Protect	Type II
General Data	
Dimensions (WxHxD)mm	600 x 400 x 250
Weight (kg)	30kg
Topology	Transformerless
Cooling	Intelligent Fan
Relative Humidity	0-100%
Operating Temperature Range	-25-60°C
Operating Altitude (m)	<3000
Mounting	Wall Bracket
Communication with RSD	SUNSPEC
Display & Communication Interfaces	LCD, LED, RS485, CAN, WI-FI, GPRS, 4G, SUNSPEC

For New Storage System:

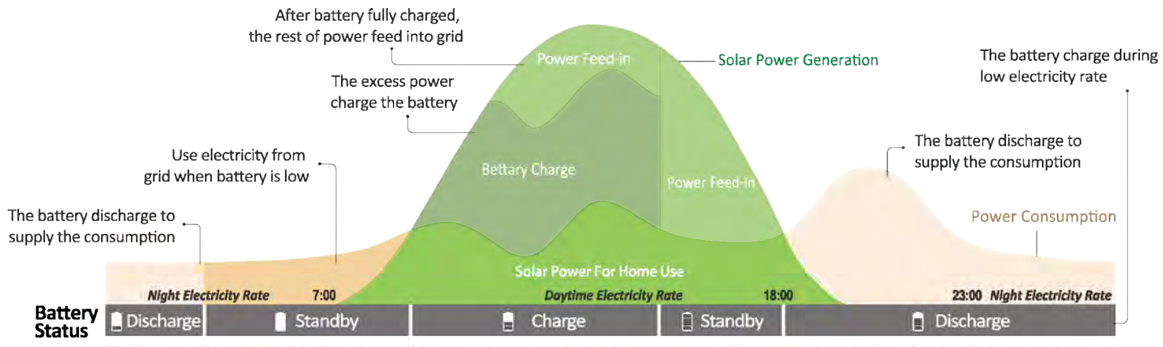


Optimizing Self-Consumption (on-grid) + Emergency Power Supply (off-grid)



Optimizing Self-Consumption Mode

With home energy storage installed, home owners may also be able to change from a flat rate electricity tariff to a time-of-use tariff. For the areas and regions, where peak savings can be applied.



Three Phase Hybrid Storage Inverter

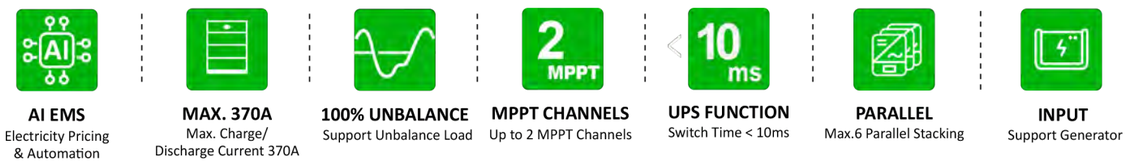
7-12kW (LV Battery Supported)

The GH7-12 Series three phase storage inverters are designed to increase energy independence for homeowners and commercial users. The power range is from 7kW to 12kW, compatible with low voltage (40-60V) batteries.

Energy management, based on time-of-use and demand charge rate structures, significantly reduces the amount of energy purchased from the public grid.

The UPS function (switch time < 10ms), enables the crucial loads power ON during outages. Additionally, under the backup operation mode, the inverter provides you with up to 150% peak output overloading.

The GH7-12kw Series energy storage inverter features Smart Electricity Pricing & Automation, an energy management tool based on real-time electricity pricing strategies. It continuously monitors electricity price fluctuations and dynamically adjusts device operation accordingly. Operating 24/7 fully automatically without the need for manual intervention, it helps users optimize their electricity usage and reduce energy costs.



AI EMS
Electricity Pricing & Automation

MAX. 370A
Max. Charge/ Discharge Current 370A

100% UNBALANCE
Support Unbalance Load

MPPT CHANNELS
Up to 2 MPPT Channels

UPS FUNCTION
Switch Time < 10ms

PARALLEL
Max.6 Parallel Stacking

INPUT
Support Generator

- Higher Yields
- Support for Time-of-use Optimization
- Configurable Operation Modes
- AFCI (Optional) & Rapid Shutdown Ready
- 48V low voltage battery, transformer isolation design
- Build in Anti-feed-in Function
- Compact Size and Easy Installation
- Smart Monitoring & Remote Firmware Upgrade

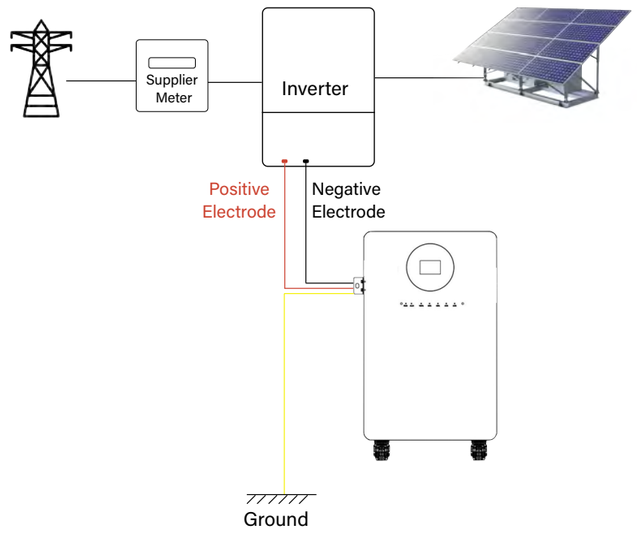
GH7-12kW TECHNICAL SPECIFICATIONS

PV Input	GH7K-TL	GH12K-TL
Max DC Input Power (kW)	14	24
Max PC Voltage (V)	950	950
MPPT Voltage Range (V)	80-900	80-900
Normal Voltage (V)	650	650
Start-up Voltage (V)	100	100
Start-Up Voltage (V)	160	160
Max. Input Current (A)	26 + 18.5	26 + 18.5
Max. Short Current (A)	32 + 25	32 + 25
Number MPP Trackers / No. of PV Strings	2/2	2/2
Battery Port		
Compatible Battery Type	Li-ion / Lead-acid etc.	
Battery Nominal Voltage (V)	250	400
Battery Voltage Range (V)	40-60	40-60
Max charge / Discharge Current (A)	220	370
Max charge / Discharge Power (kW)	10.5	18
Normal Charge / Discharge Current (A)	180	300
AC Grid		
Nominal AC Output Power (kW)	6	10
Max. Continuous Power (kVA)	7	12
Max. Continuous Current (A)	11	18
Nominal Grid Voltage (V)	380/400	380/400
Nominal Grid Frequency (Hz)	50/60	50/60
Power Factor	1.0 (-0.8~+0.8 adjustable)	1.0 (-0.8~+0.8 adjustable)
AC Load Output		
Max. Continuous Current (A)	11	18
Max. Continuous Power (kVA)	7	12
Max. Peal Current (A) 60s	22/21	36/35
Nominal AC Voltage L-N (V)	380/400	380/400
Nominal AC Frequency (Hz)	50/60	50/60
Voltage (THD) (%)	<3	<3
Protection		
PV Reverse Polarity Protection	Yes	Yes
Over-current / Voltage Protection	Yes	Yes
Bat. Reverse Polarity Protection	Yes	Yes
Anti-Islanding Protection	Yes	Yes
AC Short Circuit Protection	Yes	Yes
Residual Current Detection	Yes	Yes
Ground Fault Monitoriing	Yes	Yes
Enclosure Protect Level	IP66	IP66
AC/DC Surge Protect	Type II	Type II
Ground Fault Monitoring	Yes	Yes
General Data		
Dimensions (WxHxD)mm	600x400x250mm	600x400x250mm
Weight kg	30	30
CEC Efficiency / Max Efficiency (%)	96.8% / 98.1%	96.8% / 98.1%
Cooling	Intelligent Fan	Intelligent Fan
Relative Humidity	0-100%	0-100%
Operating Temperature Range (°C)	-25 to 60°C	-25 to 60°C
Operating Altitude	<3000	<3000
Standby Consumption (W)	<10	
Display & Communication Interfaces	LCD, LED, RS485, CAN, WI-FI, GPRS 4G, SUNSPEC	
Communication with RSD	SUNSPEC	

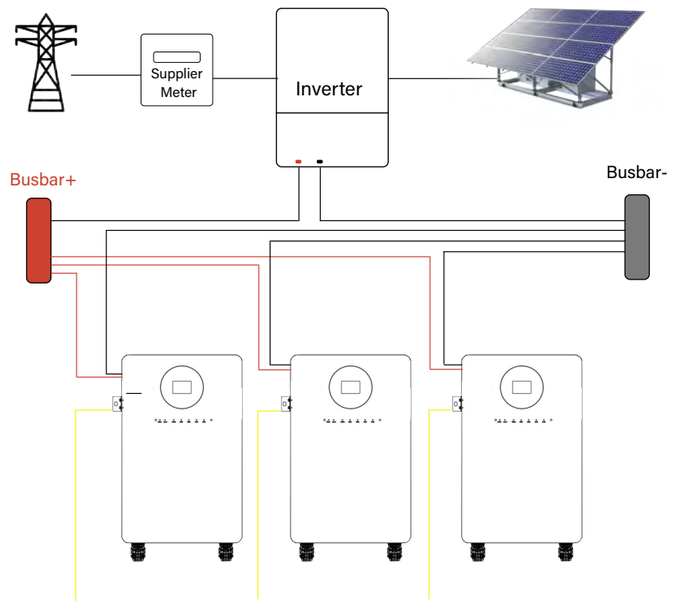
GH-B16A Battery

Battery/Inverter System Connection

Single-Battery Connected in Parallel



Multiple Batteries Connected in Parallel
Use a parallel bus bar when installing two or more batteries.



Power Your Home with Government-Backed Savings

- ✓ Up to 100% Battery cost covered* with government rebates.
- ✓ 16 kWh storage capacity – scalable for larger homes.
- ✓ Remote monitoring via PACEEX App (Wi-Fi/Bluetooth).
- ✓ 10+ year lifespan with industry-leading safety
- ✓ (CE, RoHS, SGS, IEC 62619, IEC 62368, IEC 61000 certified).

**As of July 2025 Terms apply. Rebates vary by region and electricity rates*

GH-B16A Battery Energy Storage System

Save Big on Smarter Power

1. Battery System Specifications

RESIDENTIAL SERIES MODEL NO:	GH-B16A
Battery Chemistry:	Lithium Ion Phosphate ($LiFePO_4$)
Rated Voltage	51.2V
Nominal Capacity	314 Ah
Maximum Charge Voltage	58.4V
Maximum Charging Current	157A
Energy	16.076 kWh
Discharge Cut-off Voltage	40V
Warranty	10 Years
Certification	CE, RoHS, SGS, IEC 62619, IEC 62368 IEC 610000
Country of Manufacture	China

Environmental Specifications

Operating Temperature	Range
Charging	0°C to 60°C
Discharging	-20°C to 60°C
Storage	0°C to 35°C
Maximum Elevation	Floor-mounted
IP Rated	IP20 Indoors
Operating Noise	<30 db (A)

Battery Dimensions

Dimensions	850*650*245mm (+/-5mm)
Weight	131.5kg
Mounting	Floor-mounted or Wall Bracket

2. Communication and Control

Communication Mode	CAN/RS485/RS232/Bluetooth/Wifi
RS485/CAN	Inverter Comms
RS232	Firmware updates / Monitoring of battery information
WiFi/Bluetooth	Remote monitoring
Dry Contact	Alarm outputs

3. Battery Management System (BMS)

	Parameter
Single Cell Over-Charge Cut-off Voltage	3.65V
Single Cell Under-Discharge Cut-off Voltage	2.5V
Over-Current Discharge Protection	250A/500mS
Recommended Charge Current	157A
Maximum Discharge Current	157A
Recommended Discharge Current	157A
Rated DC Power	8.38kW
Peak Discharge Current/Time	250A/500+/-20mS
Backup Run-time	24+ Hours for essential load
Available Battery Capacity	16.076kWh
DOD	100%
Charge/Discharge DOD Cycle	16.076kWh
System Connection	Up to 15 Batteries connected in parallel (1 Battery-16kWh, 2 Batteries-32kWh, 3 Batteries-48kWh)

4. Compliance and Safety

Certifications	CE, RoHS, CE, RoHS, SGS, IEC 62619, IEC 62368
Recycling	WEEE Compliant

5. VPP Ready:

Virtual Power Plant compatible system required.

6. Installation:

The GH-B16 Residential Home Battery requires professional installation to qualify for government rebates. Our certified technicians cover all Australian regions.