



A Series

For the modern family who wants the energy efficient lifestyle. Cleenergy brings you a home energy storage system, where energy meets elegance.

Compatibility & Scalability

- | Plug & Play expansion with ease of installation
- | Modular architecture sizing up to 48 kWh
- | System compatible with future battery expansion
- | Energy Management System for seamless switching between PV, battery and the grid

Future Proof Investment

- | Engineered for extreme Australian conditions and diverse global climate
- | Robust enclosure with IP66 rating for indoor & outdoor installation
- | Advanced thermal management design to reduce energy loss
- | PV oversizing up to 200% (Solar)

Smarter Savings

- | Monitor real-time energy flow
- | Optimise for savings or backup priority
- | Schedule smart charging & discharging

Advanced Safety Protection

- | Lithium Ferro Phosphate (LFP) battery chemistry
- | Aerogel insulation pads
- | Internal fire suppression
- | Heat pads to tackle extreme low temperatures
- | Module-level temperature sensors
- | Decompression valve
- | AC & DC Surge Protection

Number of Battery Modules	1	2	3	4	5	6	7	8
Total Energy Capacity (kWh)	6	12	18	24	30	36	42	48
Total Usable Energy (kWh)	5.8	11.6	17.4	23.2	29	34.8	40.6	46.4
Hybrid 5kW Inverter - CGH S5.0H	CGS S5.0 6H1	CGS S5.0 6H2	CGS S5.0 6H3	CGS S5.0 6H4	CGS S5.0 6H5	CGS S5.0 6H6	CGS S5.0 6H7	CGS S5.0 6H8
Hybrid 6kW Inverter - CGH S6.0H	CGS S6.0 6H1	CGS S6.0 6H2	CGS S6.0 6H3	CGS S6.0 6H4	CGS S6.0 6H5	CGS S6.0 6H6	CGS S6.0 6H7	CGS S6.0 6H8

Battery Module

Electrical Specifications	
Product Model Number	CGI E6.0H
Battery Chemistry	Lithium Ferro Phosphate (LFP)
Rated Energy (kWh) ¹	6
Usable Energy (kWh) ¹	5.8
Rated Power (kW)	3
Rated Voltage (V)	330
Battery Voltage Range (V)	280-380
Scalability	Up to 8 x Battery Units
General Data	
Net Weight (kg)	65
Dimension (W x H x D,mm)	680 x 370 x 260
Communication	CAN
Operating Ambient Temperature Range ² (°C)	Discharge: -20 ~ 55 Charge: -20~ 55
Max.Operating Altitude (m)	<3000 (>2000 Deratings)
Relative Humidity (%)	0-100(Non-Condensing)
Cooling Method	Natural Convection
Fire Suppression	Yes
Heating Pads - Extreme Low Temperature	Yes
Auto-Configuration Function	Yes
Ingress Protection	IP66
Mounting Method ³	Floor/ Wall Mounted
Standards and Certifications	IEC 62619, IEC 62040, IEC 60730, EN 61000-6-1, EN 61000-6-3, UN38.3

¹ Test conditions: 100% depth of discharge, cell voltage 2.5 - 3.65V, 0.2C charge & discharge at +25 ±2°C at the beginning of battery life

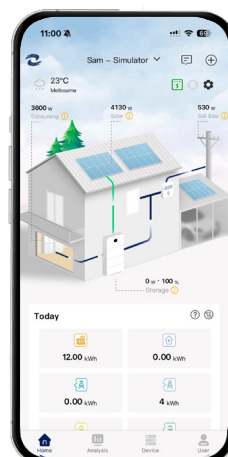
² Data captured when Heating Pads have been enabled

³ Additional accessories required: 1 x Wall-mount bracket for every 2 x batteries

Clenergise 2 - Mobile App

- ▮ Elegant User Interface
- ▮ Energy Dashboards - Flows & Insights
- ▮ Virtual Power Plant Capable
- ▮ Backup & Outage Management
- ▮ Alerts & Notifications

From rooftop to battery, full control of your energy, in the palm of your hand.



Available now on



iOS



Android

Inverter Module

Battery Specifications

Product Model Number	CGH S5.0H	CGH S6.0H
Number of Battery Modules per Inverter	1 - 8 Units(>5 modules requires 1x BDU)	
Battery Voltage Range (V)	280 - 380	
Max. Charging / Discharging Power (kW)	6/5	6/6

PV Specifications

Max. Input Power (kW)	10	12
Max. Input Voltage (V)	600	
Start-up Voltage (V)	65	
MPPT Operating Voltage Range (V)	60 - 550	
Rated Input Voltage (V)	360	
Number of MPPTs	2	
Number of Strings per MPPT	1	
Max. MPPT Current (A)	16/16	
Max. MPPT Short Circuit Current	23/23	

AC Specifications (Output Data on Grid)

Rated Power (kW)	5	6
Max. Output Apparent Power (kVA)	5	6.6
Max. Apparent Power Input from Grid (kVA)	10	12
Rated AC Current Output to Grid (A)	22.7	27.3
Max. AC Current (A)	22.7	30
Max. AC Current from Grid (A)	45.5	50
Rated Grid Voltage (V) Frequency (Hz)	220/230/240 50/60	
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)	
THDi (@Nominal Output) (%)	<3	

Efficiency

Max. Efficiency PV to Grid (%)	97.4
European Efficiency PV to Grid (%)	96.0

Backup Specifications (AC Output)¹

Rated Active Power (kW)	5	6
Max. Apparent Power (kVA)	5	6.6
Peak Output Power (System) (kVA)	10 @ 10s	12 @ 10s
Rated Output Current (A)	22.7	27.3
Max. Output Current (A)	22.7	30
Rated Voltage (V) Frequency (Hz)	220/230/240 50/60	
THDv (Linear load) (%)	<3	

Protections

PV Reverse Polarity	Yes
PV Insulation Resistance Detection	Yes
Anti-Islanding	Yes
AC OverVoltage	Yes
AC Overcurrent	Yes
AC Short Circuit	Yes
Leakage Current Monitoring	Yes
DC Switch (Solar)	Yes
Overvoltage Category	DC:OVC II, AC:OVC III
AFCI	Optional
Remote Shutdown	CSIP-AUS Capable

General Data

Backup Power Switching Time (ms)	<10
Inverter Topology	Non-isolated
Mounting Method	Floor/ Wall Mounted
User Interface	LED Central Display & Mobile Application
Communication	Wi-Fi , RS485, Fast Ethernet, Optional: Ethernet / 4G
Communication with Battery Distribution Unit	CAN
Operating Temperature Range (Ambient) (°C)	-25 ~ +60
Max. Operation Altitude (m)	<3000 (>2000 deratings)
Relative Humidity (%)	0 ~ 100 (Non-Condensing)
Cooling Method	Natural Convection
Ingress Protection	IP66
Weight (kg)	26.5
Dimension (W x H x D,mm)	680 x 370 x 265
Standards & Certifications	EN 61000-6-1, EN 61000-6-3, IEC 62109-1 / 2, AS / NZS 4777.2, G98,G99, VDE 4105, EN 50549-10

¹ Full Home Backup & Generator Integration options are available with an accessory - Clenergy Gateway. See the installation manual for further details



Power your home and your drive.

Pair your **A Series** with our integrated EV charging solution to store solar energy by day and charge your vehicle by night, seamlessly, efficiently, and intelligently. More information on our website.

Notes:

- * Performance may de-rated when unit operates outside of non-standard conditions or technical specifications
- * Text and illustrations were accurate at the time of creation. Clenergy reserves the right to make changes
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Made in China | Designed in Australia