



Advance Series | Single Phase

For the modern family who wants the energy efficient lifestyle. Clenergy brings you a home battery, where energy meets elegance.

Compatibility & Scalability

- | Plug & Play expansion with ease of installation
- | Modular architecture sizing up to 64 kWh
- | System compatible with future battery sizes
- | Energy Management System for seamless switching between PV, battery and the grid

Performance & Reliability

- | Automatic optimisation: charging and discharging
- | Monitor real-time energy flow
- | Optimise for savings or backup priority
- | Schedule smart charging & discharging
- | AC & DC Surge Protection
- | Clenergy EV Charger compatibility

Smart Energy Control

- | 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

Built for Security and Trust

- | Anti-Islanding & Emergency Power Supply Included
- | Lithium Iron Phosphate (LFP) battery chemistry for superior thermal stability
- | Aerogel Insulation pads between cells
- | Internal Fire suppression
- | Heat Pads tackling extreme low temperatures

Battery Sizes

Battery Size (kWh)	Number of Battery Modules	1	2	3	4	5	6	7	8
Cube 6	Rated Energy	6	12	18	24	30	36	42	48
	Useable Energy	5.88	11.76	17.64	23.52	29.4	35.28	41.16	47.04
Cube 7	Rated Energy	7	14	21	28	35	42	49	56
	Useable Energy	6.89	13.78	20.67	27.56	34.45	41.34	48.23	55.12
Cube 8	Rated Energy	8	16	24	32	40	48	56	64
	Useable Energy	7.88	15.76	23.64	31.52	39.4	47.28	55.16	63.04

Battery Module

Electrical Specifications

Product Name	Cube 6	Cube 7	Cube 8
Product Model Number	CGI E6.0H* CGI E6.0HS	CGI E7.0HS	CGI E8.0HS
Rated Energy (kWh) ¹	6.03	7.03	8.04
Usable Energy (kWh)	5.88	6.89	7.88
Rated Power (kW)	3	3.5	4
Battery Chemistry	Lithium Iron Phosphate (LFP)		
Rated Voltage (V)	330		
Battery Voltage Range (V)	280 ~ 380		
Scalability	Up to 8 x Battery Units (>4 modules requires 1 x BDU)		
General Data			
Weight (kg)	61.7	66.1	70.5
Dimension (W x H x D mm)	680 x 370 x 260		
Communication	CAN		
Operating Ambient Temperature Range (°C) ²	-20 ~ 55 (Discharge & Charge)		
Max.Operating Altitude	< 3000 (> 2000 derating)		
Relative Humidity	0% ~ 100% (Non-condensing)		
Cooling Method	Natural Convection		
Fire Suppression	Yes		
Heating Pads	Yes		
Built-in Isolator **	Yes		
Module Level Temperature Sensors	Yes		
Decompression Valve	Yes		
Aerogel Insulation Pads	Yes		
Ingress Protection	IP66		
Mounting Method ³	Floor/ Wall-mounted		
Standard and Certification	IEC 62619, IEC 62040, IEC60730, 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: Wall-mount bracket for every 2 x batteries

* CGI E6.0H is only compatible with A5 and A6 Inverters

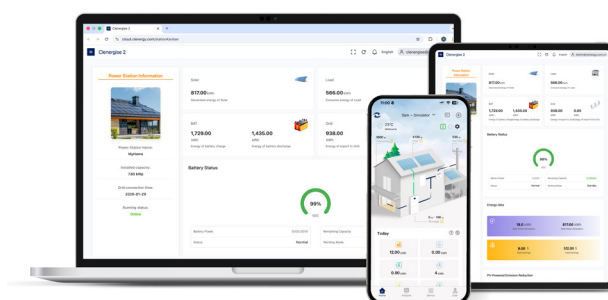
** CGI E6.0H does not have this feature

Notes:

Performance may de-rate outside of the conditions in this datasheet

Clenergise 2 - Mobile Application

- | Elegant User Interface
- | Energy Dashboards - Flows & Insights
- | Virtual Power Plant Capable
- | Backup & Outage Management
- | Clenergy Smart EV Charger Compatibility
- | Multi System & Multiple Property Management
- | Available on iOS App Store & Android Play Store



Available now on



iOS



Android

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

Inverter Module – Single Phase

Product Name	A5	A6	A8	A10	A12
Product Model Number	CGH S5H	CGH S6.0H	CGH S8.0H	CGH S9.9H	CGH S12.0H
Battery Port Specifications					
Number of Battery Modules per Inverter	1 ~ 8 Units (>4 modules requires 1 x BDU)				
Battery Voltage Range (V)	280-380				
Max. Charging / Discharging Power (kW)	6/5	6/6	12/8	12*/9.999	12/12
PV Specification					
Max. Input Power (kW)	10	12	16	20	24
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		3	4	
Number of Strings per MPPT	1				
Max. MPPT Current (A)	16/16		16/16/16	16/16/16/16	
Max. MPPT Short Circuit Current	23/23		23/23/23	23/23/23/23	
AC Specification Input/Output (Grid)					
Rated Power (kW)	5	6	8	9.999	12
Max. Apparent Power (kVA)	5	6.6	8.8	9.999	12
Max. Apparent Power Input from Grid (kVA)	10	12	14.5		
Rated AC Current Output to Grid (A)	22.7	27.3	34.8	43.5	52.2
Max. AC Current (A)	22.7	30	38.2	43.5	52.2
Max. AC Current from Grid (A)	45.5	50	63		
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		97.4		
European Efficiency PV to Grid (%)	96.9		96.7		
Max. Efficiency - Battery to AC Output (%)	97.0		96.8		
Max. Efficiency - AC Input to Battery (%)	96.0		96.8		
Backup Specifications (AC Output) ¹					
Rated Apparent Power (kW)	5	6	8	9.999	12
Max. Apparent Power (kVA)	5	6.6	8.8	9.999	12
Rated Output Current (A)	22.7	27.3	34.8	43.5	52.2
Max. Output Current (A)	22.7	30	38.2	43.5	52.2
Rated Voltage (V) Frequency (Hz)	220/230/240 50/60				
THDv (@Linear load)(%)	<2%				
Protection					
PV Reverse Polarity	Yes				
Anti-islanding	Yes				
AC Over Voltage	Yes				
AC Overcurrent	Yes				
AC Short Circuit	Yes				
Leakage Current Monitoring	Yes				
DC Switch(Solar)	Yes				
Overvoltage	DC:OVC II ,AC:OVC III				
General Data					
Backup Power Switching Time (ms)	<10				
Inverter Topology	Non-isolated				
Max. Power in Parallel	Up to 2 x 5/6kW Inverters - With the Clenergy Gateway				
Mounting Method	Floor/ Wall-mounted				
User Interface	LED Central Display & Mobile Application				
Communication	Wi-Fi, RS485, Fast Ethernet, Optional: Ethernet/4G				
Communication with BDU	CAN				
Operating Temperature Range (Ambient) (°C)	- 25 to +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		36	37	
Dimension (W x H x D mm)	680 x 370 x 265		680 x 430 x 265		
Standard	EN 61000-6-1, EN 61000-6-3, IEC 62109-1 / 2,AS / NZS 4777.2, G98,G99, VDE 4105,EN 50549-10				

* With connected adequate PV power the maximum battery charging of 12kW is achievable

Notes:

Test Performance specifications may be de-rated at non-standard conditions

The final explanation right belongs to Clenergy



Power your home and your drive.

Pair your **Advance 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.



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Made in China | Designed in Australia