



Advance Series | Three 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

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

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

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 E6.0HS	CGI E7.0HS	CGI E8.0HS
Battery Chemistry	Lithium Iron Phosphate (LFP)		
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
Rated Voltage (Vdc)	660 (Three Phase System)		
Battery Voltage Range (Vdc)	560-760 (Three Phase System)		
Scalability	Up to 8 x Battery Units (>4 modules requires 1x BDU)		

General Data

Weight	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 (m)	< 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, 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

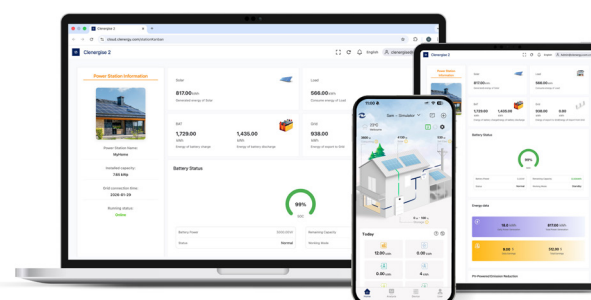
³ Additional accessories required: 1 x Wall-mounted bracket for every 2 x batteries

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
- Clenergise 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 - Three Phase

Product Name	AT10	AT12
Product Model Number	CE-AD-INV-T9.9	CE-AD-INV-T12
Battery Port Specifications		
Number of Battery Modules per Inverter	1 ~ 8 Units (>4 modules requires 1 x BDU)	
Battery Voltage Range (V)	560-760	
Max. Charging / Discharging Power (kW)	12*/9.999	12/12
PV Input Specification		
Max. Input Power (kW)	20	24
Max. Input Voltage (V)	1000	
Start-up Voltage (V)	180	
MPPT Operating Voltage Range (V)	160 - 950	
Rated Input Voltage (V)	600	
Number of MPPTs	3	
Number of Strings per MPPT	1	
Max. MPPT Current (A)	16 / 16 / 16	
Max. MPPT Short Circuit Current	23 / 23 / 23	
AC Input/Output (Grid)		
Rated Power (kW)	9.999	12
Max. Apparent Power (kVA)	9.999	13.2
Max. Apparent Power Input from Grid (kVA)	20	24
Rated AC Current Output to Grid (A)	14.4	17.3
Max. AC Current (A)	14.4	19
Max. AC Current from Grid (A)	29	34.8
Rated Grid Voltage (V) Frequency (Hz)	380/400 50/60	
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)	
THDi (@Nominal output) (%)	<3	
Efficiency		
Max. Efficiency PV to Grid	98.2	
European Efficiency PV to Grid	97.1	
Max. Efficiency - Battery to AC Output	97.3	
Max. Efficiency - AC Input to Battery	97.2	
AC Output (Backup)		
Rated Apparent Power (kW)	9.999	12
Max. Apparent Power (kVA)	9.999	13.2
Rated Output Current (A)	14.4	17.3
Max. Output Current (A)	14.4	19
Rated Voltage (V) Frequency (Hz)	380/400 50/60	
THDv (@Linear Load)(%)	<2	
Protection		
PV Reverse Polarity	Yes	
Anti-islanding	Yes	
AC Over Voltage	Yes	
AC Over Current	Yes	
AC Short Circuit	Yes	
Residual 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. Inverters in Parallel	Up to 2 Inverters - With 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)	37	
Dimension(W x H x D mm)	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

† Full Home Backup & Generator Integration options are available with an accessory - Clenergy Gateway

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.



Clenergy Technology Co., Ltd.

Manufacturing: Xiamen Well Energy Technology Co., Ltd. is a wholly owned subsidiary of Clenergy

China: 1001 -1009 Min'an Rd, Xiang'an District 361101, Xiamen, Fujian

Australia: Unit 3, 10 Duerdin Street, Clayton, VIC 3168

Technical Support Contact

Phone: 1800 255 269

Made in China | Designed in Australia