

Product Features



Boosting Capacity and Income

Under the same transformer capacity, charging stations can be over-equipped by 1-2 times.

By utilizing energy storage to provide power support, the charging capacity of the station increases by 40%-80% and postponing the need for transformer upgrades.



Gas
Stations



Urban
Activities



Charging
Stations



Buildings &
Properties



Peak-valley Arbitrage

Utilizing energy storage for peak shaving and valley filling, to achieve peak-valley arbitrage and related government subsidy benefits.



Inherently Safe

Built-in solid-state inherently safe batteries;

AI intelligent early warning;

Comprehensive three-dimensional fire detection, multi-layer protection of detection, prevention, venting, and extinguishing, achieving the inherent safety of the integrated charging and storage system.



Six Major Applications

Supports six application scenarios of peak shaving and valley filling, demand control, station capacity expansion, virtual power plants, reactive power regulations, and backup power supply, achieving diversified revenue streams.



HYPERCUBE PRO

ALL-IN-ONE CHARGING AND STORAGE SYSTEM

HYPERCUBE PRO

TECHNICAL SPECIFICATIONS

Model

HSA4W243-0069C1-GU

General Parameters

Dimensions (W*D*H)	1171.5*800*1998.5 (±5mm)
Weight (kg)	≤ 1600
IP Rating	IP54
Design Life	10 years
Fire Suppression System	Perfluorohexanone / Aerosol
Rated AC Voltage (V _{ac})	380V±15%
Rated Frequency (Hz)	50/60
Power Factor	1.0 lagging ~1.0 leading
Total Harmonic Distortion Ratio	THD ≤ 3%

Energy Storage System Parameters

Rated AC Power (kW)	100 (Maximum 120)
Rated Energy (kWh)	64
Battery Type	Solid-state LFP
Reactive Power Response Time	≤ 50ms
Power Control Deviation	≤ 2% (Power > 20% of rated power)
Drect Current Component	< 0.5%
Rated Charge/discharge Efficiency	88%
Maximum Charge/discharge Efficiency	≥ 90%
Charge/discharge Conversion Time	≤100ms

Charging System

Total Charging Power (kW)	120
Maximum Power Per Gun (kW)	120
Operating Voltage Range (V _{dc})	200-1000
DC Output Current (A)	0-250 (per charger)
Maximum Charging Efficiency	≥ 95%
Number of Chargers	2

Operating Environment

Operating Altitude	≤ 4000m (derating > 2000m)
Operating Humidity	5%-95% (non-condensing)
Operating Temperature	-20°C~50°C (derating > 45°C)
Anti-corrosion Grade	C4/C5

Other Features

Noise Control (dB)	≤ 65
Networking Mode	4G, Ethernet
Protective Features	Input over/under-voltage protection, output over-voltage protection, short-circuit protection, etc.
Certifications	CE, LVD 2014/35/EU, EMC 2014/30/EU, RED 2014/53/EU; EN 61851, EN 61008, EN 62955, etc.