

Power Cube

Modular Industrial and Commercial ESS Power Cube Series Power Cube EC215-100K-M01



Power Cube EC215-100K-M01
Technical parameters



System efficiency is 5-8% higher than the industry average. Significantly improve system investment ROI.



Industry leading in battery temperature consistency. Effectively extending battery life by more than 10%.



Real-time data monitoring and fault recording, early warning, fault location.



Pack-level combustibility gas detection and fire protection.



Integrated design, convenient transportation, reduce installation costs.



The large capacity cell reduces the system series-parallel connection.



Support for parallel, flexible capacity expansion.



Support grid-connected and off-grid operation.

Industrial and Commercial Energy Storage Application Scenarios

- Industrial and commercial energy storage is a typical application of distributed energy storage system on the user side, mainly composed of photovoltaic modules, hybrid PCS, battery packs, loads, etc., mostly modular scalable design;
- The main application scenarios include factories and shopping malls, photovoltaic energy storage charging stations, and microgrid+ energy storage, and new application scenarios have appeared in data centers, 5G base stations, heavy trucks switching, port shore power, and so on;
- The main application modes include grid-connected mode, pure off-grid mode, and integrated grid-connected and off-grid mode;
- The main electrical system architectures are AC-coupled and DC-coupled.



Industrial and Commercial Application



Micro-grid



Photovoltaic Energy Storage and Charging Station

Technical parameters:	Power Cube EC215-100K-M01
Battery configuration	
Battery type	LFP 280 Ah
PACK configuration	14.336 kWh / 1P16S
Battery system configuration	215 kWh / 1P240S
Voltage Range	672-864 Vdc
AC parameters (on-grid)	
Rated power	100 kW
Maximum charge and discharge power	110 kW
Rated grid voltage	400, 3W+N+PE
Grid voltage range	360-440 Vac
rated current	150 A
Maximum Current	160 A
Rated grid frequency	50 Hz
Allowable grid frequency fluctuations	±5 Hz
Power Factor Range	-1 ~ +1
iTHD	< 3% (Rated power)
System parameters	
Size of battery cabinet	1600*1080*2270 mm (W*D*H)
Weight of battery cabinet	~2400 kg
Protection level	IP55
Operating temperature range	-30~+50°C (>45°CReduction)
Operating humidity range	0~95% (No condensation)
Max. working altitude	3000 m
Cooling mode	Intelligent air-cooled
Isolation mode	No transformer
Communication interface	Ethernet
Communication protocol	Modbus TCP
System certification	EN IEC62477-1, EN IEC62619, IEC60730 Annex H, EN IEC61000-6-2, EN IEC61000-6-4, UN38.3
PCS certification	GB/T34120, EN/IEC62477-1, IEC61000-6-2/-4, VDE 4105, EN50549-1, UK G99, Italy CEI 0-21

