

Power Cube+

Modular Commercial Energy Storage System Power Cube Series
Power Cube+ AS112-50K-01



Using high-capacity cells to reduce system series and parallel connections



Supports grid-connected, off-grid operation, and rapid switching



Supports remote monitoring via Web and APP



Real-time data monitoring and fault logging for early warning and fault localization



PACK-level air duct ensures temperature consistency of battery cells



ALL-in-one design, modular design for flexible expansion, supports multiple units in parallel



Pack-level fire protection + combustible gas detection with early warning ensures system operational safety



Precise demand protection and anti-reverse flow control to avoid additional expenses; customizable system strategies as needed



Integrated design, supports photovoltaic DC-coupled power generation and diesel generator power generation

Technical parameters:	Power Cube+ AS112-50K-01
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Battery configuration	
Battery type	LFP 314 Ah
PACK configuration	16.077 KWh / 1P16S
Battery system configuration	112 KWh / 1P112S
Battery system voltage range	313.6 - 403.2 Vdc

Photovoltaic	
Rated input power	45 KW + 45 KW
Long-term overload power	50 KW + 50 KW
PV voltage input range	200 - 850 V
MPPT quantity	2

AC parameters (Grid-connected and off-grid)	
Rated power	50 KW
Maximum charge and discharge power	55 KW
Rated grid voltage	230 / 400 V
Maximum current	160 A
Rated grid frequency	50 Hz
Power factor range	-0.8 (leading) to 0.8 (lagging)
iTHD	< 3%

System parameters	
Diesel engine power output	100 KW
Battery cabinet dimensions	1700*1125*2270 mm (W*D*H)
Battery cabinet weight	~1600 kg
Protection level	IP55
Operating temperature range	-30 to +50°C (Derating at >45°C)
Operating humidity range	0~95% (non-condensing)
Maximum operating altitude	< 2500 m
Temperature control method	Intelligent air cooling
Isolation method	Transformerless
System communication interface	Ethernet
External communication protocol	Modbus TCP
System certification	ENIEC62477-1, EN IEC62619, IEC60730 Annex H, EN IEC61000-6-2, EN IEC61000-6-4, UN38.3
PCS certification	Safety of photovoltaic inverters IEC 62619-1/2, Efficiency IEC 61683, Islanding IEC 6216, China GB/T 37408, NB/T 32004

