

Specifications

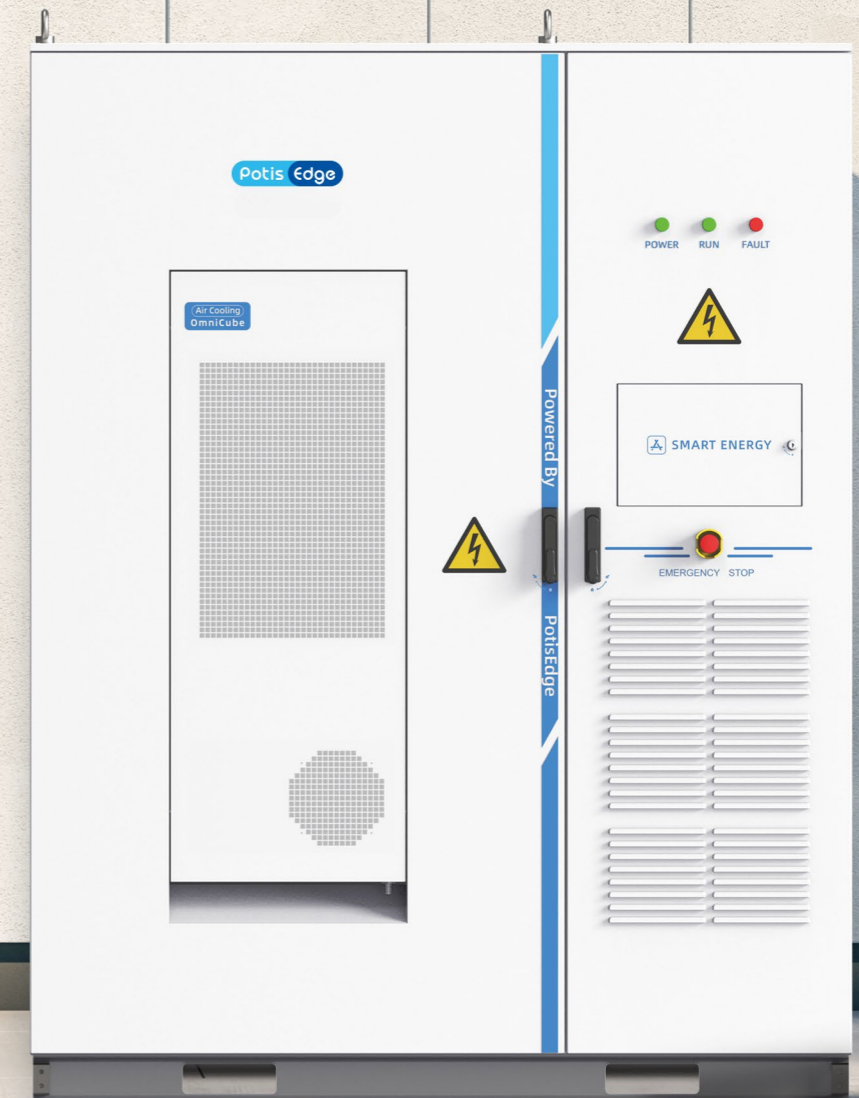
Model	OmniCube-A114-50K-E	OmniCube-A215-100K-E		
DC side				
Cell type	LFP	LFP	LFP	LFP
Rated current	140 A	140 A	140 A	140 A
Rated voltage	409.6 V	768 V	768 V	768 V
Voltage range	390.4~464.6 V	600~876 V	732~871.2 V	732~871.2 V
Rated capacity	280 Ah	280 Ah	280 Ah	280 Ah
Rated energy	114.688 kWh	215.04 kWh	215.04 kWh	215.04 kWh
AC side				
Rated output power	50 kW	105 kW	105 kW	105 kW
Rated grid voltage	400 V	400 V	400 V	400 V
AC connection method	Three-phase three-wire	Three-phase three-wire	Three-phase three-wire	Three-phase three-wire
Grid frequency range	three-phase four-wire	three-phase four-wire	three-phase four-wire	three-phase four-wire
Nominal grid frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
Max. THD of current	≤3% (Fully loaded)	≤3% (Fully loaded)	≤3% (Fully loaded)	≤3% (Fully loaded)
Power factor	-0.99~+0.99	-0.99~+0.99	-0.99~+0.99	-0.99~+0.99
PV connection				
Max. input power	50 kW	50 kW	75 kW	100 kW
Open-circuit voltage	900 V	950 V	900 V	900 V
PV Side max input current	I _{max} =100 A	I _{max} =100 A	I _{max} =200 A	I _{max} =200 A
Number of MPPT trackers	1	1	2	2
MPPT operating voltage range	0~900 V	0~900 V	0~900 V	0~900 V
Max. short-circuit current	120 A	120 A	240 A	240 A
General data				
Main equipment	MPPT (optional) 、DC/DC (optional) STS (optional) 、PCS	MPPT (optional) 、STS (optional) 、PCS		
Cooling method	Air cooling	Air cooling		
Extensionability	On-grid:10; Off-grid:4	On-grid:10; Off-grid:4		
Operating temperature range	-30 ~ +55 °C	-30 ~ +55 °C		
Relative operating humidity	0%-95%, RH	0%-95%, RH		
Max. operating altitude	≤2000 m	≤2000 m		
Dimension(W*D*H)	1750*1215*2340 mm	1750*1215*2340 mm		
Fire Control	Aerosol	Aerosol		
Weight	1.85 t	2.6 t		
Protection class	IP54	IP54		
Communication interface	RS485, Ethernet	RS485, Ethernet		
Protocol	Modbus, IEC61850	Modbus, IEC61850		
Certifications	GB36276、GB/T34131、IEC/EN62619、IEC/UL60730、IEC/EN62477、IEC/EN61000、UN38.3、UN3480			

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Potis Edge

Energy Storage for PV Installations Direct Current Flexibility Integrated System

OmniCube-A215



Photovoltaics, Energy Storage, Direct Current, and Flexibility Full Scenario Coverage

The OmniCube integrates photovoltaics, energy storage, direct current and flexibility. With modular design, its components, including storage battery, battery management system, energy storage inverter, energy management system, and photovoltaic modules, can be customized to better cater to customers' facilities. Stores energy from sustainable sources, reduces energy costs and ensures energy sustainability for industrial and commercial applications.



- Proprietary Research Solution**
Patented safety valve intelligent inspection system
Top master control supports millisecond data acquisition
- Freedom of Choice**
Optional wind and solar module function
Support seamless/second switching between on-grid and off-grid connection
- Highly Integrated**
All-in-one design with factory pre-configured lightweight EMS
Integrated optical, storage, AC and DC power distribution modules
- Safety Operation and Maintenance**
Multi-dimensional fire protection at pack and cabinet level
Real-time remote monitoring, operation and maintenance without experts on site

Proprietary Patent iCCS Safety Valve Intelligent Detection System

Adopts the integrated design concept.
Replaces the traditional "wiring harness+BMS+temperature sensor" approach.
Build multi-dimensional active and passive safety protection and system-level thermal runaway risk control from the cell-level.

≤ ±3mv
Voltage acquisition accuracy (Full voltage range)

30-60s
System reaction time for thermal runaway confirmation

3-5min
System reaction time for valve opening warning

3-6 months
Prediction time range for thermal runaway of battery cells



Application Scenarios

