

# Specifications

Model	OmniCube-A114-50K-E	OmniCube-A215-100K-E		
<b>DC side</b>				
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
<b>AC side</b>				
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
<b>PV connection</b>				
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 <sub>max</sub> =100 A	I <sub>max</sub> =100 A	I <sub>max</sub> =200 A	I <sub>max</sub> =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
<b>General data</b>				
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



# Full scenario complication

Omicube, with its modular design, combines energy storage battery, battery management system, energy storage alternator, energy management system, and photovoltaic module to customise an all-in-one system to fit your facility. It stores energy from sustainable sources”.



- 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  
Matchable to PV, storage, AC, DC 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

