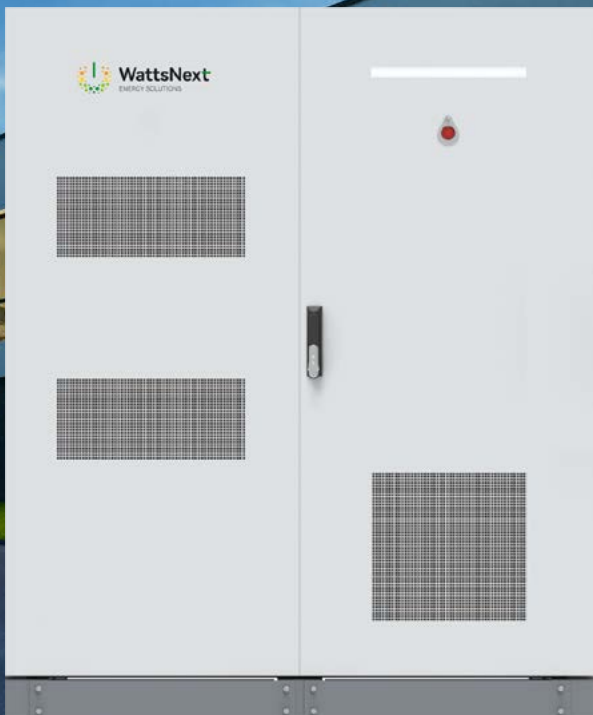




WattsNext
ENERGY SOLUTIONS

Smart PV ESS Cabinet

ES96/48K-A/EU



Advantages and Features

- Integrated design of photovoltaic and energy storage, supporting photovoltaic access, and enabling green electricity storage.
- Efficient conversion with a maximum system efficiency of up to 90%, maximizing revenue.
- Seamless switching between grid-connected and off-grid modes, providing reliable backup energy for critical loads.
- LFP batteries feature high safety and long lifespan cells, ensuring reliability and security.
- Modular design, supporting multiple parallel connections, with flexible configuration options.
- Cloud-based APP for real-time monitoring, remote OTA upgrades, and intelligent operation and maintenance.
- IP55 and maximum C4 high-protection design, suitable for multiple scenarios.

Specifications

Product Model	ES96/48K-A/EU
Battery Data	
Battery type	LiFePO4
Battery cell capacity	3.2V/314Ah
Battery cell combination	1P16S*6
Nominal capacity	96.46kWh
Rated voltage	307.2V
Voltage rage	DC 240~350.4V
Rated charge/discharge current	157A
Charging/discharging rate	0.5P
Cooling method	Fan cooling
PV Input	
Max. input power	100kW
Max. input voltage	1000V
MPPT operating voltage range	150~850V
Start-up voltage	180V
Max. input current	40A*4
Max. short circuit current	60A*4
No. of MPPT trackers	4
No. of strings per MPPT	2+2+2+2
AC Output	
Nominal output power	48kW
Norminal output voltage	230V/400V, 3L/N/PE
Norminal output frequency	50Hz/60Hz
Max. output current	729A
Power factor	~1 (0.8 lead to 0.8 lag, can be set)
THDi	<3%
Back-up Data	
Norminal output voltage	230V/400V, 3L/N/PE
Norminal output frequency	50Hz/60Hz
Max. output current	729A
Nominal output power	48kW
Max. apparent power	48kVA
Max. single-phase apparent power	16kVA
Switching time	<20ms
System Data	
Dimensions (WxDxH)	1300mm*1200mm*1600mm
Weight	~1.2T
Protection grade	IP55
Anti-corrosion grade	C4
Operating temperature	-20°C~55°C
Storage temperature	-30°C~55°C
Relative humidity	≤100%
Altitude	≤2000m
Communication interface	Ethernet, CAN2.0, RS485, 4G

Disclaimer:

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