

PMA-A050K-P-110K PV&ESS All-in-One Cabinet

AI-Powered Battery Safety Detection and Customer Service



Safe

Intelligent early warning and precise thermal management.

Simple

Occupies only 1.3 m² per cabinet.

Smart

Remote monitoring and proactive alerts.

Scalability

Supports parallel expansion for a scalable power range from 50 kW to 300 kW.

Technical Parameters

	Model	PMA-A050K-P-110K
PV	Maximum Input Power	100 kW
	Startup Voltage	180 V
	Maximum PV Voltage	1,000 Vdc
	Rated PV Voltage	600 Vdc
	MPPT Operating Voltage Range	330-850 Vdc
	Number of MPPTs	4
	Number of Inputs per MPPT	2
	Maximum Input Current (per MPPT)	40 A×4
	Maximum Short-Circuit Current (per MPPT)	50 A×4
Battery	Nominal capacity	110 kWh
	Battery capacity	314 Ah
	Rated Voltage	352 Vdc
	Battery Voltage Range	308~396 Vdc
	Rated Charge/Discharge Current	140 A
	Maximum Charge/Discharge Current	165 A
AC	Rated Output Power	50 kW
	Maximum Output Power	50 kW
	Rated Input Power	50 kW
	Maximum Input Power	50 kW
	Rated Output Current	76 A
	Maximum Output Current	76 A
	Rated Voltage (Input and Output)	3L/N/PE; 400 V
	Grid Frequency	50Hz/60Hz
	Total Voltage Harmonic Distortion	<3% @ Rated Power & Linear Load
Temperature Control and Fire Protection	Temperature Control Type	Smart Air Conditioner、 Smart Fan
	Fire Suppression Agent	Aerosol (or Perfl uorohexanone)
	Fire Protection Control Type	Composite Detection、 Cabinet-Level Suppression
Mechanical	Weight	Net Weight: 1,350 kg Gross Weight (with packaging): 1,400 kg
	Dimensions (W×D×H)	Unit Dimensions: 1,000 × 1,320 × 2,145 mm Dimensions with Packaging: 1,070 × 1,390 × 2,285 mm
	Communication Method	Ethernet 4G

※ Information may be subject to modify without notice.

If there is any change in product size and parameters, please refer to the latest information without prior notice.