

# 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 m<sup>2</sup> 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 Perfluorohexanone)                                                                   |
|                                         | Fire Protection Control Type             | Composite Detection、Cabinet-Level Suppression                                                    |
| Mechanical                              | Weight                                   | Net Weight: 1,350 kg<br>Gross Weight (with packaging): 1,400 kg                                  |
|                                         | Dimensions (W×D×H)                       | Unit Dimensions: 1,000 × 1,320 × 2,145 mm<br>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.