

TECHNICAL DATASHEET

All-in-one System

BXA-H50-B110 // COMMERCIAL USE // INDUSTRIAL USE

All-in-one industrial photovoltaic system that integrates solar generation and energy storage in a single compact unit. Scalable from 50 to 300 kW through parallel expansion. Equipped with AI-managed safety systems, precise thermal management, and remote monitoring with proactive alarm functions for efficient and secure industrial installations.

- ✓ Intelligent early warning and precise thermal management.
- ✓ Supports parallel expansion for a scalable power range from 50 kW to 300 kW.
- ✓ Ultra-precise battery performance prediction from the first 100 cycles, enabling higher quality, longer life and unmatched reliability for critical applications.
- ✓ Built-in AI that tracks electricity prices and learns user habits to optimize operation and boost savings.



FEATURES



ON/OFF GRID



SMART MONITORING



HIGH CAPACITY



SOLAR STORAGE



MODULAR EXPANSION



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MODEL	ALL-IN-ONE SYSTEM
PV	
Maximum Input Power	96kW
Startup Voltage	180Vdc
Maximum PV Voltage	1,000Vdc
Rated PV Voltage	600Vdc
MPPT Operating Voltage Range	330 - 850Vdc
Number of MPPTs	4
Number of Inputs per MPPT	2
Maximum Input Current (per MPPT)	40A × 4
Maximum Short-Circuit Current (per MPPT)	50A × 4
BATTERY	
Nominal capacity	110kWh
Battery capacity	314Ah
Rated Voltage	352Vdc
Battery Voltage Range	308 ~ 396Vdc
Rated Charge/Discharge Current	140A
Maximum Charge/Discharge Current	165A
AC	
Rated Output Power	50kW
Maximum Output Power	50kW
Rated Input Power	50kW
Maximum Input Power	50kW
Rated Output Current	76A
Maximum Output Current	76A
Rated Voltage (Input and Output)	3L/N/PE; 400V
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 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

NOTES

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