

Product Features

Enhanced Safety

• Fire protection includes pack-level and compartment-level aerosol systems, active smoke and temperature monitoring. The system features compartmentalized isolation to progressively minimize the effects of thermal runaway, ensuring the safety of equipment, assets, and personnel.

Versatile Applications and Modes

- Multi-mode: Supports Dynamic Expansion, T.O.U, Backup Power, and Anti-flow protection.
- All-scenario: Suitable for small to medium-sized commercial and industrial applications up to 10MWh, with seamless transition between on-grid and offgrid modes, ensuring stable power supply.

Efficient Thermal Management

• dissipation efficiency, maintaining battery cell temperature variation within 3°C.

EMS Intelligent Scheduling

• Based on the dynamic electricity pricing of the local grid, the dispatching plan is updated every 5–15 minutes to ensure optimal profits for each charge and discharge cycle, increasing opportunities for peak-valley arbitrage and reducing demand charges.

Product Specifications

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Product Model	POWERPLANT-100-233-A	POWERPLANT-100-233-B	POWERPLANT-100-233-C	POWERPLANT-100-233-D		
System Parameters						
Rated output power	100 kW					
Qty of batteries	5					
Battery total energy	233 kWh					
Usable energy	221.3 kWh					
Operating temperature	−25 °C to +55°C (derating above 45°C)					
Storage temperature	−30 °C to +60 °C					
Allowable relative humidity	0% to 95%					
IP rating	IP54					
Anti-corrosion grade	C4					
Thermal management	PCS, STS,DCDC: forced air cooling. Battery: liquid cooling	PCS, STS: forced air cooling. Battery: liquid cooling	PCS,DCDC: forced air cooling. Battery: liquid cooling	PCS: forced air cooling. Battery: liquid cooling		
Noise	< 70 dB					
Altitude	≤ 3000m					
Display	Indicator light + Touch screen + Cloud platform					
Communication	RS485/4G/LAN					



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DRM		
Mounting		_
Weight	3100kg	
Dimension (W*H*D)		
Warranty		_
Battery Parameters		
Battery type		
Cell capacity		
Rated capacity		
Nominal battery voltage		
Battery voltage range		
Rated charging/Discharging current		
Depth of discharge (DOD)		
Cooling method		
Battery life cycle		
Inverter Parameters		
Nominal AC output power		
Max AC output power		
Operating voltage pange		
Rated DC current		
Rated grid voltage		
Rated AC current		
Grid voltage range		
Rated frequence range		
THDI		
PF		
AC grid connection type		
PV Input Parameters		
Max number of MPPTs	2	
MPPT operating voltage range	200 Vdc to 950 Vdc	
Max current per MPPT	80 A	
Max power	100 kW	
Backup Output Parameters		
Nominal output power		
Nominal output vo l tage		
Nominal output frequence		
THDU		
STS Parameters		
Grid port rated power	20	0 kW
		-
Grid port rated current	29	90A
Grid port rated current Transfer time		90A :0ms
Transfer time		
Transfer time Safety features		
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Ampaura Power Plant ESS

Dry contact							
Gro	ound						
3050kg	3050kg	3000kg					
1600 mm * 2300 mm * 1400 mm							
5-year product warranty							
LFP (L	iFePO4)						
280 Ah							
233 kWh							
832 V							
728 V to 936 V							
140 A							
0% to 95% adjustable							
Liquid cooling							
6000 times@25°C±2°	C 100%DOD 80% SOH EOL						
100) kW						
100 kW							
650 V to 950 V							
190 A							
400 V, 50 Hz							
145 A							
400 Vac±15% (according to local standard)							
50±5Hz (according to local standard)							
<3%							
-0.99 to 0.99							
3L/N/PE							
		-					
1	2	1					
/	200 Vdc to 950 Vdc	1					
/	80 A	1					
/	100 kW						
100	0 kW						
400 V							
50 Hz							
<3%@100% R load							
		1					
		1					
		1					
Y	/es						
	/es						
DC Type II AC Type II							
Yes							
Yes							
Yes							
Yes							
Yes							
Yes							
Yes							
Yes							
Yes							
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