

Smart 110P PV&ESS All-in-One Cabinet

Product Introduction

The Ener Hexon® Smart 110P adopts an integrated air-cooled design, incorporating 5 battery PACKs, a 50kW hybrid inverter, BMS, EMS, an intelligent temperature control system, an advanced fire suppression system with precision inhibition and explosion venting, along with cabinet structure and electrical auxiliary components. The system provides a rated battery capacity of 110 kWh.



Key Features

Safe

Intelligent early warning ensures operational safety; precise thermal management extends battery life by 12%.

Simple

Occupies only 1.3 m² per cabinet. Modular design allows rapid deployment, and factory pre-assembly reduces total costs by 15%.

Smart

Cloud-based smart O&M with AI-enhanced remote monitoring and proactive alerts ensure full battery lifecycle management. Multi-mode operation improves profitability.

Scalability

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

Technical Parameters

Model		PW-YT-DS5T110-PV050-B03
Category	Name	Parameter
PV	Maximum Input Power	96kW
	Startup Voltage	210V
	Maximum PV Voltage	850Vdc
	Rated PV Voltage	620Vdc
	MPPT Operating Voltage Range	330-850Vdc
	Number of MPPTs	4
	Number of Inputs per MPPT	2
DC Parameters	Maximum Input Current (per MPPT)	40A×4
	Cell Type/Battery Type	314Ah/LiFePO4
	Battery Rated Capacity	110kwh
	Nominal Voltage	352Vdc
AC Parameters (Grid-connected)	Charging/Discharging C-rate	0.5P Charge/Discharge
	Cooling Method	Air-cooled
	Rated Power	50kw
	Grid Voltage	400Vac
	Rated Current	140A(DC)
	Rated Grid Frequency	50Hz/60Hz
	Grid Frequency Range	47Hz~52Hz, 57Hz~62Hz
	Total Current Harmonic Distortion	<3%
	Power Factor	> 0.99
	Power Factor Adjustable Range:	0.8 (leading) ~0.8 (lagging)
AC Parameters (Off-grid)	AC Off-grid Voltage	380V/400V
	AC Off-grid Frequency	50Hz/60Hz
	Off-grid Output Voltage Distortion	<2%
System Parameters	Cooling Method	Air-cooled
	Fire Protection System	Aerosol
	Anti-corrosion Grade:	C3 (C4/C5 optional)
	Protection Level	IP54
	Operating Temperature Range	Discharging-20~50°C; Charging0~50°C (derating above 45°C)
	Storage Temperature	-20~45°C
	Operating Humidity Range	5%~95%
	Installation Method	Floor-standing installation
	Working Condition:	Maximum 2 charges and 2 discharges per day
	System Communication Interface	Ethernet、 4G
	External System Communication Protocol	Modbus RTU/Modbus TCP
	Altitude	3000m (Derate above 2000 m)
	Dimensions [mm](WxDxH)	Unit Dimensions: 1000x1320 x2145 mm Dimensions with Packaging: 1070 x 1390 x 2285 mm
Weight	Net Weight: 1370 kg Gross Weight (with packaging): 1420 kg	
Certification	MSDS, UN38.3, IEC61000, IEC 62109	

※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.