

Smart 265P

Ener Hexon™ Solution265 Light Storage Integration PV&ESS All-in-One Cabinet

Product Introduction

The Ener Hexon™ Solution265 adopts an integrated air-cooled design, incorporating a power battery cluster, 125kW hybrid PV-storage 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 265 kWh and 125 kW output power (European standard version).



Key Features

Safe Ultra-early thermal runaway warning + multi-dimensional electrical protection + aerosol fire suppression + cabin-level targeted extinguishing. Smart temperature control ($\leq 5^{\circ}\text{C}$ difference) extends battery cycle life by 12%.

Simple All-in-one modular design occupies only 1.3 m² per cabinet. Factory pre-assembly + hand-in-hand parallel expansion (125 kW → 625 kW), reducing transportation and installation costs by 15%.

Smart AI-powered smart balancing + black start + multiple modes (VPP / grid-connected / off-grid). Cloud platform remote monitoring & proactive alerts.

Technical Parameters

Model		PW-YT-DS5T265-PV125-B01
Category	Name	Parameter
PV	Maximum Input Power	180kW
	Startup Voltage	180Vdc
	Maximum PV Voltage	1000Vdc
	Rated PV Voltage	600Vdc
	MPPT Operating Voltage Range	180-950Vdc
	Number of MPPTs	10(6)
	Number of Inputs per MPPT	2(3)
	Maximum Input Current (per MPPT)	42A×10 (48A×6)
	Maximum Short-Circuit Current (per MPPT)	60A×10 (60A×6)
DC Parameters	Cell Type/Battery Type	314Ah/LiFePO4
	Battery Rated Capacity	265kwh
	Nominal Voltage	844.8Vdc
	Charging/Discharging C-rate	0.5P Charge/Discharge
	Cooling Method	Air-cooled
AC Parameters (Grid-connected)	Rated Power	125kw
	Grid Voltage	400Vac
	Rated Current	148A(DC)
	Rated Grid Frequency	50Hz/60Hz
	Grid Frequency Range	47Hz~52Hz, 57Hz~62Hz
	Total Current Harmonic Distortion	<3%
	Power Factor	>0.99
AC Parameters (off-grid)	Power Factor Adjustable Range:	0.8 (leading) ~0.8(lagging)
	AC Off-grid Voltage	380V/400V
System Parameters	AC Off-grid Frequency	50Hz/60Hz
	Off-grid Output Voltage Distortion	<2%
	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)	1200x1860x2200mm(Package:1270x1930 x 2400mm)	
Weight	Net: 2500 kg Gross (packaged):≈2600 kg	
Certification	MSDS, UN38.3	