YOTAI

Wind&Solar&Diesel Smart Distributed ESS

The Ener Hexon® Smart 150 integrates a smart controller of wind, solar and DG input, hybrid inverter, battery rack, temp control, fire fighting system, and auxiliaries in a weatherproof cabinet. A 50kW/150kWh system managed by BMS and EMS for efficient energy control.

Ener Hexon®Smart 150

Emergency Rescue | Oil Field | Mine | Off-grid Island | Village

Safety

Smart warning ensures energy storage safety and precise temperature control extends product life by **12%**.

Simple

Occupying only **2.72㎡** of floor space, modular deployment enables rapid installation, while prefabricated components save **15%** in costs.

Smart

Cloud-based smart operation and maintenance, AI-enabled remote monitoring and early warning ensure the full lifecycle of batteries, while multi-mode switching increases revenue.

Expansive

Hand-in-hand parallel expansion, covering a wide power range from **50kW** to **300kW** and a broad energy range from **107.5kWh** to **300kWh**.

*The product diagram is for reference only!

Technical Parameters

Model		YT-DS5T0150-PVW50A
Wind Power Input (optional)	Rated input power/Max. power	10kW/20kW
	Rated input voltage/range	380Vac/0~600Vac
	Operating mode	MPPT
	MPPT voltage range	260~600Vac
	Input protection	Fuse; Lightning protection circuit
	Unloading mode/Max. unloading current	PWM/200Adc
PV Input	Max. input power	50kW
	Starting voltage	200V
	Max. DC input voltage	1000Vdc
	Rated DC input voltage	630Vdc
	MPPT voltage range	200-850Vdc
	Qty. Of MPPT	4
	Qty. of single-channel MPPT input channels	2
	Max. input current	30A*4
	Max. short circuit current	40A*4
Diesel Generator Input	Rated input power	50kW
	Input voltage	380Vac
	Input current	75A
ESS	Rated energy	150.5 kWh
	Rated capacity	280Ah
	Rated voltage	537.6Vdc
	Battery voltage range	470.4~604.8 Vdc
	Rated charge/discharge current	90A
	Max.charge/discharge current	100A
Machine AC Output	Rated output voltage	50kW
	On-grid Max. input apparent power	50kVA
	On-grid Max.output apparent power	50kVA
	Off-grid Max. output apparent power	50kVA
	Max. output current	75A
	Rated voltage(Input and output)	3L/N/PE; 380V
	Grid frequency	50Hz/60Hz
	THDu	<3%@rated power &linear load
	Inverter Max.efficiency	98.4%
General Parameters	Weight	3000kg
	Dimensions	1600*1700*2591(W*D*Hmm)
	Ingress protection	IP54
	Anticorrosive level	C4
	Communication mode	RS485,Ethernet, 4G
	Operating temperature	-30°C~55°C (45°C derating)
	Storage temperature	-20°C～45°C (SOC30%～50%，< 6months)
	Relative humidity	5~95%, no condensing
	Altitude	3000m (>2000m derating)
	Cooling mode	Smart air conditioner & fan

■ Product continues to iterate, specifications may be updated without prior notice.

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