YOTAI

PV&ESS All-in-one Cabinet

The Ener Hexon® Smart100 integrates a smart controller hybrid inverter, high-power battery rack, temp control, fire fighting system, electrical auxiliary in a unified cabinet design. A 50kW/103kWh system managed by BMS and EMS for efficient energy control.

Ener Hexon® Smart 100

Commercial premises **Industrial park** **Mine** **Island** **Village**

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

Simple
Occupying only **1.21㎡** 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** .

*The product diagram is for reference only!

Technical Parameters

Model		YT-DS5T0103-PV050A
PV Input	Max. input power	50kW
	Starting voltage	200V
	Max. DC input voltage	1000Vdc
	Rated DC input voltage	630Vdc
	MPPT voltage range	200 ~ 850 Vdc
	Qty. Of MPPT	4
	Qty. of single-channel MPPT input channels	2
	Max. input current	30A*4
	Max. short circuit current	40A*4
ESS	Rated energy	103.68kWh
	Rated capacity	150Ah
	Rated voltage	691.2Vdc
	Battery voltage range	604.8~777.6 Vdc
	Rated charge/discharge current	75A
	Max.charge/discharge current	90A
Machine AC Output	Rated output power	50kW
	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&output)	3L/N/PE; 380V
	Grid frequency	50Hz/60Hz
	THDu	<3%@ rated power& linear load
	Inverter Max.efficiency	98.4%
General parameters	Weight	1450kg
	Dimensions	1100*1100*2250(W*D*Hmm)
	Communication mode	RS485, Ethernet, 4G
	Operating temperature	-20°C ~ 50°C (>45°Cderating)
	Storage temperature	-20°C~45°C
	Relative humidity	5 ~ 95%, no condensing
	Altitude	3000m (>3000m derating)
	Cooling mode	Smart air conditioner & smart fan
	Ingress protection	IP54

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

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