

## PV&ESS All-in-one Cabinet

Ener Hexon® Solution 103 features an All-in-One design, consisting of 9 air-cooling battery packs, a 50kW hybrid inverter, a BMS, an EMS, an smart temperature control system, a precision suppression and explosion-proof combined fire protection system, as well as cabinet structure and electrical auxiliary equipment, with a battery rated capacity of 103 kWh.



Remote school



Remote farm



Pasture



Villa



Island



5G Base



## Ener Hexon® Solution103

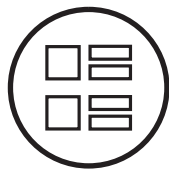
\*The product diagram is for reference only!

## Features



### Safe

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



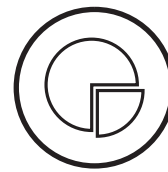
### Simple

Occupying only 1.42m<sup>2</sup> 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 150kW.

# Technical Parameters

## Ener Hexon® Solution103

Category	Name	TJ-DS5T103-PV050-B02
PV Input	Max.input power	50kW
	Starting voltage	200V
	Rated DC input voltage	620Vdc
	MPPT voltage range	200~850 Vdc
	Qty. Of MPPT	4
	Qty.of single-channel MPPT input channels	2
	Max. input current (Each MPPT)	30A*4
	Max.short circuit current (Each MPPT)	40A*4
ESS	Rated energy	103kWh
	Rated voltage	691.2Vdc
	Battery voltage range	604.8~777.6Vdc
	Rated charge/discharge current	75A
	Max.charge/discharge current	90A
Machine AC Output	Rated output power	50kW
	Rated input power	50kW
	Max.output current	75A
	Rated voltage(input&output)	3L/N/PE;400V
	Grid frequency	50Hz/60Hz
	THDu	<3%@ rated power& linear load
System parameters	Weight	Net weight 1480kg, gross weight with packaging 1570kg
	Dimensions	960*1650*2245(W*D*Hmm)
	Packing dimension	1030*1720*2400(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(>2000m derating)
	Ingress protection	IP54
	Battery certification	EC62619,IEC61000,UN 38.3
	Inverter certification	IEC61000,IEC62477,IEC62109,EN50549-1

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