

PV&ESS All-in-one Cabinet

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 103kWh.

LC-C1-50-103



Safe

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



Simple

Occupying only **1.42m²** 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

Model		LC-C1-50-103
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 (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	IEC 62619, IEC61000, UN 38.3
	Inverter certification	IEC61000, IEC62477, IEC62109, EN50549-1

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

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