

1044

CORE



Liquid-Cooled Energy Storage System

A highly integrated, standard 10-foot containerized energy storage system designed for commercial and industrial applications, with a rated AC output voltage of 400V. This system is capable of on/off-grid switch functionality, and the STS and <20ms seamless switching feature is available as an optional upgrade, providing strong off-grid load capability. It is equipped with dedicated interfaces for diesel generator connection and PV inverter connection, enabling multiple power sources to supply the system. This flexible design allows the system to adapt to various application scenarios and diverse user requirements.

TECHNICAL PARAMETERS

	CellType	LFP/314 Ah
	Pack Configuration	52.2 kWh/1P52S
	System Configuration	1044 kWh/4P260S
	Rated DC Voltage	832
	DC Voltage Range	728-936 V
	Max. Charge/Discharge Rate	0.5 P
	Max. Depth of Discharge	100% (25±2°C)
POWER SOURCE	Rated ESS Power	500 kW
	Rated AC Voltage	400 V
	AC Voltage Range	±15%
	Grid Type	3W+N+PE
	Rated Frequency	50 Hz/60 Hz
	Rated STS Power	1000kW
	On/Off-grid Switching	<20ms
	Power Factor	0.99/-1+1
	THDI	<0.5% Ipn
	Max. PV Inverter Input Current	800 A
	Max. Diesel Generator Input Current	800 A
BACKUP	Max. Backup Load Port Current	800 A
	Max. Backup Load Power*	350 kW (70% of Rated Output Power)
GENERAL	Cycle Life	≥ 8,000 cycles
	Communication	Modbus TCP/IP
	Fire Suppression System	Aerosol system+Water spray system
	Ingress Rating	IP55
	Cooling	Liquid cooling+Forced air cooling
	Operating Temperature	-25°C-55°C (Derating after 45°C)
	Anticorrosion Rating	C4 (C5 optional)
	Humidity	0-95% RH (non-condensing)
	Noise	≤ 80 dB
	Altitude	3000m (Derating above 2000m)
	Dimensions (W*D*H)	2991*2438 2896 mm
	Weight	14 t