

YOUR
SMART
ENERGY



STORION-LC-TB125-EX

Liquid-Cooling
Outdoor Cabinet

CAPACITY

Inverter: 125 kVA

System: 261 kWh



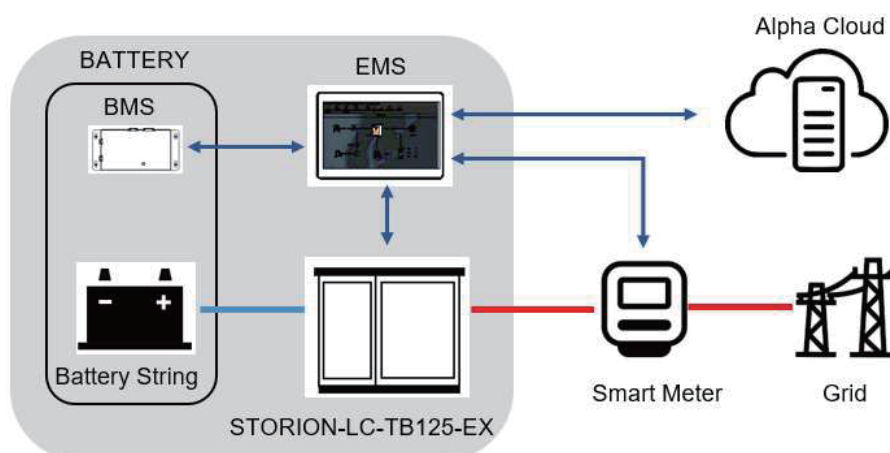
KEY FEATURES

- All-in-One Design
- Easily Set Function Parameters
- Safer Intelligent Fire Protection System
- Various Operating Modes Available For Selection
- Seamless switching to backup($\leq 20\text{ms}$ with STS Cabinet)
- System-wide Temperature Difference within 3°C
- Max 50 units in parallel(On-Grid Mode)

STORION-LC-TB125-EX



System Diagram



Model	STORION-LC-TB125-EX
System Parameter	
Battery Chemistry	LiFePO4
Energy Capacity	261.2 kWh per Cabinet
Depth of Discharge (DoD)	100% (On-Grid), 90% (Off-Grid)
Warranty	5 Years Product Warranty, 10 Years Battery Performance Warranty
PCS Parameter	
Nominal AC Power	125 kVA
Max. Output Power	137.5 kVA
Battery Voltage Range	630 V ~ 950 V
Nominal Grid Voltage	400 V(±15%), 3L/N/PE
Nominal Grid Frequency	50/60 Hz (± 5 Hz)
Output THDu	< 3 %
AC Power Factor	0.8 leading ... 0.8 lagging
Backup Switch Time (with extra STS)	< 20ms
Overload	110% Continuous; 120% 1 min
Efficiency	
Max. Efficiency	97%
Round-Trip Efficiency (AC-DC)	90.6%
General Parameter	
Dimension(W x D x H)	(1003+400) x 1500 x 2482 mm*
Battery Modules Connection	5 Modules in Series
Weight	3.2 t
Anti Corrosion	C4
Ingress Protection	IP55
Operation Ambient Temperature Range	-20 °C ~ 55 °C (> 45 °C Derating)
Operation Humidity Range	0 ~ 95 % RH
Max Operation Altitude	3000 m(> 2000 m Derating)
Fire Suppression System	Aerosol (Pack & Rack)+ Sprinkler + Smoke / Temperatur Detection
Communication Interface	CAN, RS485, USB, LAN, WIFI
Communication Protocol	Modbus TCP, API
Compliance	IEC 62477, IEC 61000, IEC 62109, EN 50549, VDE4105, C99

* STS cabinet are separate outdoor cabinets that can be assembled on the side of the system cabinet by stacking installation method.

** Based on laboratory environment.



STORION-LC-TB125-EX



Model	STORION-LC-TB125-EX
Batterie Cluster System	

Item	Data
	
Battery Module	M166314-S
Battery Chemistry	LiFePO4
Pack Configuration	3.2 V / 314 Ah @ 1P52S
Internal Resistance	≤10 mΩ
Nominal Capacity	52.124 kWh
Rated Voltage	166.4 V
Operating Voltage Range	140.4 ~ 187.2 V
Rated Charging/Discharging Power	26.062 kW (0.5P)
System Cycle Life	6000***
Operating Temperature Range	-30 °C ~ 55 °C****
Ingress Protection	IP67
Communication	CAN
Dimensions (W x D x H)	810 * 1125.5 * 237.5 mm
Weight	333 kg
Certifications	IEC 62619, IEC 62477, IEC 61000, UL9540A

Meter (Optional)	Model	DTSU666
	Rated Voltage	230V AC / 400V AC
	Accuracy Class	±1%
	Communication	RS485, Modbus RTU
	Dimensions (W×D×H)	72×80×101 mm
	CT Model	AKH-0.66, K-30×20
	CT Current Ratio	400 / 5 A
	CT Perforation Size	32×22 mm

Expansion Battery Cluster (Optional)	Model	STORION-LC261
	Battery	M166314-S
	Cluster Capacity	261.2 kWh per Cabinet
	Rated Charging/Discharging Power	130.6 kW(0.5P)
	Battery Cluster Voltage Range	702 ~ 936V
	Battery Rack	5 Modules in series
	Fire-Fighting System	Aerosol (Pack & Rack)+ Sprinkler + Smoke / Temperatur Detection
	Dimensions (W×D×H)	1003 x 1500 x 2482 mm
	Weight	3.2t

***Under specific test conditions.

****Max. charge/discharge current derating may occur with changes in temperature and SoC.



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