Elecnova

ELECNOVA ENERGY STORAGE CO., LTD.

All-in-one Liquid-cooled ESS Container

ECO-E10FT1044LP-2-N/S

ECO-E10FT1044LP-2-N/S is 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.



On/off-grid Switching

‹20ms seamless on/off-grid switching function is an available optional feature, for special requirement.

Multiple Power Source Options

Equipped with reserved interfaces for diesel generator and PV inverter, the system supports multiple power sources, making it suitable for a wide range of application scenarios.

String-Based Solution

Each battery cluster is independently managed, enhancing system reliability and stability.

All-in-One 10-ft Container

Highly integrated 3S system, cooling system, and fire protection system, delivering greater capacity within a smaller footprint.

Specifications

DC Side	ECO-E10FT1044LP-2-N	ECO-E10FT1044LP-2-S
Cell Type	LFP / 314 Ah	
Pack Configuration	52.2 kWh / 1P52S	
System Configuration	1044 kWh / 4P260S	
Rated DC Voltage	832 V	
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	0.99/ -1 ~ +1	
DC Ratio	＜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℃~55℃ (Derating after 45℃)	
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	
Safety/EMC	UN3536, IEC62477-1, IEC62619, IEC63056, UL9540A	
Grid code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11	

*Note: The value indicated herein is a recommended reference based on PF=0.7. When the load involves motors or other types of impact loads, it is recommended to equip the system with a soft starter. Please contact Elecnova for further technical support prior to order placement.

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