

All-in-one Liquid-cooled ESS Container

EL 2980-2H

This 20ft containerized energy storage system is a fully integrated solution, combining PACK, BMS, EMS, HVAC, and FSS into a single, pre-tested unit for rapid deployment. It delivers high power and flexible capacity for demand-generation, grid, and C&I applications. The unique hybrid cooling system and string PCS design maximize efficiency and usable capacity, while cluster-level control enables easy scaling to meet diverse energy needs.



Features

Rapid Deployment

Pre-integrated in a 20ft container, factory pre-commissioned for quick on-site setup and shorter lead times.

Flexible & Scalable

Cluster-level capacity reduction supports various system needs like 2h/4h energy storage

High Efficiency

String PCS design eliminates cluster losses for greater usable capacity and system performance. Automated refill coolant, zero manual operation.

Hybrid Cooling

Combine liquid-cooled batteries with air-cooled PCS to enhance efficiency, reliability, and stability throughout operation.

All in One & Reliable

Fully pre tested and pre installed, delivering consistent performance and streamlined commissioning.



Specification

Model	EL2980-2H	EL2600	EL2230	EL1860	EL1490	EL2980-4H
AC Side						
Rated Output Power	186 kW*8	186 kW*7	186 kW*6	186 kW*5	186 kW*4	186 kW*4
Rated Voltage	690 V					
AC side connection	3W+PE					
Voltage Range	587V~759 V					
Rated Output Current	1245 A	1089 A	933 A	778 A	622 A	622 A
Rated Frequency	50/60 Hz					
Total Harmonic Distortion (THDi)	<3%					
Power Factor	-1 ~ +1					
DC Side						
Battery Type	LFP , 3.2 V / 280 Ah					
Battery PACK Configuration	1P*52S					
Battery Capacity	2981 kWh (46.59 kWh * 8 * 8)	2609 kWh (46.59 kWh * 8 * 7)	2236 kWh (46.59 kWh * 8 * 6)	1863 kWh (46.59 kWh * 8 * 5)	1490 kWh (46.59 kWh * 8 * 4)	2981 kWh (46.59 kWh * 8 * 8)
Rated Battery Voltage / Voltage Range	1331.2 V / 1164.8...1497.6 V					
Max.Charging/Discharging Current	140 A*8	140 A*7	140 A*6	140 A*5	140 A*4	140 A*4
Max.Charging/Discharging Power	1456kW / 1528kW	1274kW / 1337kW	1092kW / 1146kW	910kW / 955kW	728kW / 764kW	728kW / 764kW
General						
Dimensions (W*D*H)	6058*2438*2896 mm					
Weight	~ 32 t	~ 28.4 t	~ 24.8 t	~ 21.2 t	~ 17.6 t	~ 32 t
Operating Temperature Range	-25° C~+60° C (derating @ > 50° C)					
Relative Humidity	0~95%RH (Non-condensing)					
Altitude	≤ 2000 m					
Cooling	Smart Air Cooling (PCS) Liquid Cooling (Battery)					
Noise	< 75 dB					
Ingress Protection	IP55					
Firefighting	Smoke Detector, Heat Detector, Alarm Sounder, Aersol, Sprinkler, Flammable Gas Detector, Vent Plate					
Communication	RS485 / CAN / LAN					
Installation	Floor-standing					
Standard	IEC62619, IEC63056, IEC62477, IEC61000, UN38.3, EN50549-1, EN50549-2, EN50549-10					