

ESS-C-20-5015-L 5MWh Liquid-Cooled ESS

5 MWh |



What is the ESS-C-20-5015-L? The ESS-C-20-5015-L is a 20 ft liquid-cooled utility-scale battery container: 5 MWh of LFP storage (1,164.8 – 1,497.6 V DC) with cell-level liquid cooling in a 43 t single-lift enclosure. System-level gas fire suppression with backup water deluge, explosion-proof design and IEC 62619 / UN 38.3 compliance make it ready for grid-scale fleets; communication runs over IEC 61850 and Modbus TCP.

5 MWh

Rated Capacity

314 Ah

LFP Cell Type

0.5P

Charge / Discharge Rate

IP55

Outdoor Rating

KEY FEATURES

- ✓ **High-Efficiency Liquid Cooling**
Cell-level thermal management keeps temperatures uniform across the 416S12P battery strings for long service life.
- ✓ **Utility-Grade Safety**
System-level gas fire suppression with backup water deluge and explosion-proof design, certified to IEC 62619 / IEC 62477 / IEC 61000 / UN 38.3.
- ✓ **Rapid Site Commissioning**
Pre-assembled and factory-tested — ships as a single unit and goes live fast on site.
- ✓ **Wide Climate Envelope**
-20 °C to +45 °C operation, ≤2,000 m altitude and IEC 61850 / Modbus TCP integration for utility SCADA.

TECHNICAL SPECIFICATION

Parameter	ESS-C-20-5015-L
Battery Data	
Cell Type	LiFePO ₄ , 3.2 V / 314 Ah
Battery Configuration	12P416S
Rated Capacity	5 MWh
DC Voltage Range	1,164.8 ~ 1,497.6 V
DC Rated Voltage	1,331.2 V
Battery Module	332.8 V / 104.499 kWh
Charge / Discharge Rate	0.5P
General Data	
Dimension (W×D×H)	6,058 × 2,438 × 2,896 mm
Weight	~43 t
Working Temperature	-20 °C ~ +45 °C
Humidity	0% ~ 95% RH
Altitude	≤ 2,000 m
Protection Class	IP55
Cooling Method	Liquid cooling
Communication	IEC 61850 / Modbus TCP
Certification	

Parameter	ESS-C-20-5015-L
Cell / System	IEC 62619 / IEC 62477 / IEC 61000
Transport	UN 38.3

Model ESS-C-20-5015-L — full datasheet and per-project configuration available on request.
Specifications are subject to change without notice.