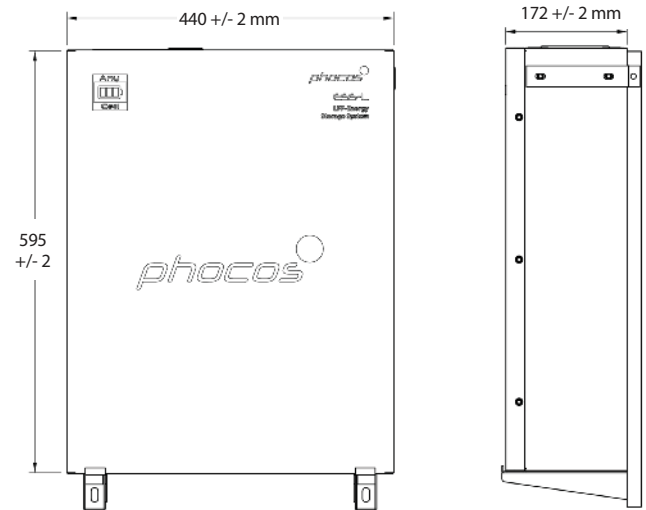




Technical Drawing



Any-Cell ESS-L-5kWh-48V

Product Introduction

The Phocos Any-Cell™ Energy Storage System LFP Series (ESS-L) is a compact, modular LiFePO4 solution offering a safe, environmentally friendly, long cycle-life storage system. Enhanced by an integrated advanced battery management system (BMS), the Any-Cell ESS-L provides seamless integration with other Phocos products. Lithium Iron Phosphate (LiFePO4) technology is environmentally friendly compared to other traditional storage options, offering longer life span, maintenance-free operation, and overall improved discharge and charge efficiency. When combining with Phocos Any-Grid hybrid inverters, these important advantages make the Any-Cell ESS-L Series key to offering customers the lowest total cost of ownership over the life of their system.

Compatibility with the Phocos Any-Grid™ Hybrid Inverter Charger Series makes the Any-Cell Energy Storage System the perfect fit for a complete, modular power solution that serves a broad spectrum of applications and power requirements. With Any-Cell’s modularity, system design and installation can be customized to scale and grow systems easily as power requirements change over time. When paired with the Phocos Any-Bridge™ AB-PLC Monitoring & Control Gateway, the Any-Cell ESS-L seamlessly integrates with the PhocosLink Cloud Portal enabling remote real-time system monitoring and control from anywhere in the world.

Any-Cell makes energy storage installation quick and easy with integrated handles to support both wall mount and rack mount installations. Designed and tested to meet rigorous international safety and reliability standards, the Any-Cell is supported by a standard 10-year warranty backed by a proven, industry-leading supplier in Phocos. The Any-Cell ESS-L Series represents the latest

in Phocos innovation, complementing an existing portfolio of products designed to provide flexible energy access solutions Anywhere, Anytime, Any-Grid.

Product Features

- Seamless integration with Phocos Any-Grid portfolio
- Safe, maintenance-free, LiFePO4 / LFP Chemistry
- Advanced Battery Management System
- Compact, high efficiency form factor
- Modular, scalable up to 8 batteries in parallel
- Wall or Rack mount
- High efficiency and low resistance
- High charge / discharge rate
- Greater than 6,000 cycles @90% DoD

Any-Cell ESS-L Shipping Information

Configuration	Quantity	Weight (kg)	Dimensions
Box	1	59	705 x 540 x 240mm +/- 5mm
Pallet	8	480	1100 x 700 x 1100 +/- 5 mm
20' Ocean Container	256	15,360	32 Pallets
40' Ocean Container	352	21,120	44 Pallets

- HS Code: 8507600090
- UN Certificate: 38.3

Technical Data

Type	ESS-L-5kWh-48V
Chemistry	LiFePO4 / LFP
Nominal Voltage	51.2 V
System Voltage	48 Vdc
Capacity (kWh)	5.12 kWh
Capacity (Ah)	100 Ah
Max. Discharge	100 A
Peak Discharge	200 A
Max. Charge	100 A
Max DoD	90%
Cycle Life (@ 25 °C)	> 6,000 Cycles @ 90% DoD
Extensibility	Up to 8 batteries in parallel
Idle Self-Consumption	< 3 W continuous

Type	ESS-L-5kWh-48V
Ambient Temperature	-10 to +50 °C / +14 to +122 °F
Storage Temperature	-30 to +60 °C / -22 to +140 °F
Max. Altitude	2,000 m
Humidity	5% to 95%
Communication	CANbus
Dimensions (WxHxD)	440 x 595 x 172 +/-2 mm / 17.3 x 23.4 x 6.8 in (without bracket)
Weight	56 kg / 123.5 lbs
Mounting	Wall or rack mount (wall mount hardware included)
Ingress Protection	IP20*
Certificates	UL 1642, UL1973, IEC 62619, UN38.3, CE, RoHS
Warranty	10 years

*IP20 applies when wall mounted, IP54 applies when rack mounted.



What is Any-Cell™?

The Phocos Any-Cell™ is a compact and modular Lithium energy storage system that complements the Any-Grid™ hybrid inverter series to allow energy to be stored on site regardless of charging resources available. Combining Phocos Any-Cell energy storage with Any-Grid hybrid inverters and Any-Bridge remote monitoring provide seamless integration between power conversion and energy storage while optimizing the use of locally available energy resources. Any-Cell represents the latest in Phocos innovation, showcasing our commitment to provide flexible energy access solutions Anywhere, Anytime, Any-Grid™.

Any-Cell™ (Off-Grid and/or On-Grid) Capability

