

lytup

TECHNICAL BROCHURE

LYTVOLT S15000

15 kWh | 51.2V | LiFePO₄ Battery
Energy Storage Module

"Power. Anywhere. Always."



15 kWh

Nominal Capacity

51.2V DC

Nominal Voltage

64 Modules

Max Parallel

915 kWh

Max Total Capacity

5-Year Warranty

Full manufacturer warranty on all modules

CE / UN38.3 Certified

Meets international safety & transport standards

6,000 Cycles @ 80% DoD

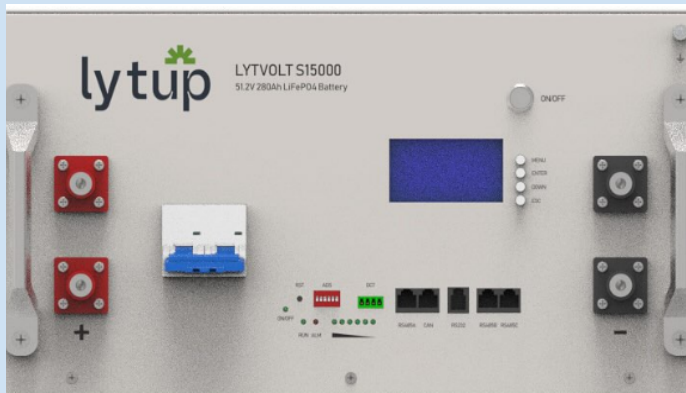
Industry-leading lifespan for long-term projects

PRODUCT OVERVIEW

System Overview

The Lytvolt S15000 is part of Lytup Power Systems' flagship modular LiFePO₄ Battery Energy Storage System (BESS) series, engineered for commercial, industrial, and EPC project applications. Built on prismatic Lithium Iron Phosphate cell chemistry, the S15000 delivers superior cycle life, thermal stability, and deep-discharge resilience making it the ideal choice for solar-coupled storage, off-grid power systems, and grid-backup installations.

- ✓ Prismatic LiFePO₄ cells (280 Ah) - highest energy density in the Lytvolt range
- ✓ 6,000-cycle design life @ 80% DoD - lowest total lifecycle cost
- ✓ CAN Bus, RS485 & RS232 - broadest multi-protocol BMS support
- ✓ Up to 64 modules in parallel - scalable to 915.2 kWh usable
- ✓ 51.2V nominal - optimised for large string inverter configurations



- ✓ 200A max discharge, 140A max charge current
- ✓ RS232/RS485 cables + 1/0 AWG DC power cables included
- ✓ CE / UN38.3 / MSDS certified
- ✓ Designed for data centres, hospitals, factories, mini-grids
- ✓ Wide operating range: 0°C to 50°C - suitable for tropical climates

Technical Specifications

PARAMETER SPECIFICATION	
Nominal Capacity	15 kWh
Nominal Voltage	51.2 VDC
Cell Chemistry	LiFePO4 Prismatic (280 Ah)
Cell Configuration	16S1P
Max Discharge Current	200 A
Max Charge Current	140 A
Charge Cut-off Voltage	55.2 V
Discharge Cut-off Voltage	46.0 V
Cycle Life	6,000 cycles @ 80% DoD
Communication Protocols	CAN Bus RS485 RS232
Module Dimensions (W×D×H)	830 × 483 × 241 mm
Module Weight	118 kg

Working Temperature	0°C to 50°C
Max Parallel Configuration	64 modules (Total: 915.2 kWh usable)
Included Accessories	RS232/RS485 cables; 1/0 AWG DC power cables (1m pair)
Warranty	5 Years
Certifications	CE UN38.3 MSDS

Certifications: CE | UN38.3 | MSDS. Module Weight: 118 kg. Dimensions: 830 × 483 × 241 mm. Operating Temperature: 0°C - 50°C.

Capacity Configuration & Autonomy Matrix

The table below shows scaled capacity and estimated backup autonomy across C&I load scenarios. All figures assume 95% DoD with $\pm 10\%$ real-world variance.

Units	Usable Capacity	Small Office 5 kW	Medium C&I 15 kW	Large C&I 50 kW	Industrial 100 kW	Mini-Grid 200 kW
1x	14.3 kWh	2-4 hrs	< 2 hrs	< 1 hr	< 1 hr	< 1 hr
2x	28.6 kWh	5-7 hrs	1-3 hrs	< 1 hr	< 1 hr	< 1 hr
4x	57.2 kWh	10-13 hrs	3-5 hrs	1-2 hrs	< 1 hr	< 1 hr
8x	114.4 kWh	20-26 hrs	6-9 hrs	2-3 hrs	1-2 hrs	< 1 hr
16x	228.8 kWh	41-51 hrs	13-17 hrs	4-6 hrs	2-3 hrs	1-2 hrs
32x	457.6 kWh	82-101 hrs	27-34 hrs	8-11 hrs	4-6 hrs	2-3 hrs
64x	915.2 kWh	> 120 hrs	54-68 hrs	16-21 hrs	8-11 hrs	4-6 hrs

NOTE: Autonomy figures are indicative. Actual runtime depends on inverter efficiency (92- 97%), ambient temperature, battery State of Health, and load power factor. Consult a Lytup-certified engineer for site-specific sizing.

C&I Application Segments

C&I Segment	Recommended Configuration	Typical Use Cases
Small C&I	4–16x S15000 (57-229 kWh)	<i>Schools, clinics, telecom towers, petrol stations</i>
Medium C&I	16–32x S15000 (229-458 kWh)	<i>Hospitals, hotels, light industrial, cold storage</i>
Large C&I / Utility	32–64x S15000 (458-915 kWh)	<i>Data centres, large factories, mini-grids, anchor loads</i>
EPC / Developer Projects	Any configuration	<i>Solar + storage projects, grid stabilisation, peak shaving</i>

Inverter Compatibility - PACE BMS Interface

All Lytvolt modules support native BMS-to-inverter communication via CAN Bus and RS485 protocols, ensuring accurate SoC display, remote charge/discharge control, and protection relay coordination.

CAN Bus Port Compatible Inverters	RS485 Port Compatible Inverters
AFORE	AFORE
Deye (Pylontech / SunSynk / SolarEdge / CHNT Power / EG4 / LiVolTek / Megarevo / SunGrow / Sol-Ark)	Deye (Bentterson)
FUJI	ELTEK
GoodWE	Growatt
Growatt (Sacular)	LEOCH
INVT	Luxpower
Luxpower (EG4)	MSL
MUST	OREX SUNPOLO
Schneider (SE)	Pace
Senergy	Phocos

CAN Bus Port Compatible Inverters	RS485 Port Compatible Inverters
SMA	Pylontech (Aern)
Sofar	Schneider
Solis	SRNE
Sorotec	SE
Studer	Voltron / Voltronic (EA Sun Power / MPP Solar)
TBB	EPEVER (With EPEVER BMS-Link)
Victron	—

Ready to switch to clean, reliable energy?

Contact the Lytup team

Email: info@lytup.co |

Web: www.lytup.co |

App: