

Powerlynk 6kW XLS

All-in-One Unit.

Masterfully crafted to simplify and speed up installation, allowing for more efficient planning and implementation of large volume roll outs in new house builds or retrofits.

Our dedicated Sunsynk Connect platform enables full control, visibility, and access to the system, making site-specific customisation easy.

The Powerlynk 6kW XLS comes complete with everything you need to install this cutting-edge storage solution. In-built connection points give access to the Load, Grid, CT, and Wi-Fi data logger ports, making it a true “plug & play” system.

From the pre-set factory settings to the in-built connection ports, the Powerlynk 6kW XLS has been designed with convenience and hassle-free installation in mind.



Lifelynk 6kW XLS

Battery Input Parameters

Supported Battery Type	Li-Ion or Lead-acid
Nominal Battery Voltage	48V
Battery Input Voltage Range	40~60V
Max. Charge Voltage	≤60V (Configurable)
Max. Charge Current	120A (Configurable)
Max. Discharge Current	130A (Configurable)
Battery Capacity (Recommended)	100~2000Ah
Charge for Li-Ion Battery Pack	Communicating with BMS of Battery Pack

PV String Input Parameters

Max. DC Input Power	4000W x 2 = 8000W
DC Input Voltage	500V
MPPT Voltage Range	120~450V
Start-Up Voltage	150V
Max. Input Current	15 x 2 = 30A (2 MPPT Channels)

AC Output Parameters (Back-Up)(Feed to Essential Load)

Max. Output Power	6000W
Max. Output Apparent Power	6000VA
Peak Output Apparent Power	12000VA
Max. Output Current	26A
Nominal Output Voltage	220/230/240Vac Single-Phase (Configurable)
Nominal Output Frequency	50/60Hz (+/-0.2%) (Configurable)
Max. Bypass Current	40A
Shift Time (Bypass and Inverter)	10ms
Output THDv (Resistor Load)	<3%

AC Input Parameter (On-Grid)(Bypass to Essential Load & Charge the Battery/Feed to Home Load)

Max. Input Power	6000W
Max. Output Power (Feed to Home Load)	6000W
Max. Apparent Input Power	6000VA
Max. Apparent Output Power	6000VA
Nominal Input/Output Voltage	220/230/240Vac (Auto Adjusted to Fit Home Grid)
Nominal Input/Output Frequency	50/60Hz (Auto Adjusted to Fit Home Grid)
Max. Bypass Current	40A
Shift Time (Bypass and Inverter)	10ms

Efficiency

Max. Efficiency	97.6%
Max. Battery to Load Efficiency	94.0%
Europe Efficiency	97.0%
MPPT Efficiency	99.9%

Protection

Integrated	Battery Over-Charge Protection, Battery Low-Voltage Protection, Over-Temperature Protection, Output Overload Protection, Output Short Circuit Protection
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Performance

Cell Technology	LFP (LiFePO ₄)
Nominal Voltage	51.2Vdc
Nominal Capacity	100Ah
Battery Usable Energy	5.12kWh
Operating Voltage	44.8~56.16Vdc
Max. Charge/Discharge Current	100A

Communication

Display	SOC Status Indicator, LED Indicator
Communication	RS232/RS485/CAN

General Specification

Dimension (WxDxH)	516x179x1128mm
Weight	32kg
Operating Temperature	Charge: 0 to 50°C Discharge: -15 to 50°C
Environmental Humidity	≤95%%RH (Non Condensation)
Ingress Protection Rating	IP40
Cycle Life	3500 Cycles or 5 Years @ 80% DoD/25°C/0.5°C, 70% EOL
Scalability	Max. 15 Batteries in Parallel
Application	ON Grid/ON Grid + Backup/OFF Grid
Compatible Inverters	Refer to Compatible Inverter List (Compatible with Major PCS Brands)

Standard Compliance

Compliance	UN38.3 / IEC62619 / IEC61000 (More Available Upon Request)
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Ordering & Deliverable Part

Part	SUN-BAT T-5.12 Ecco Battery SUN-BATT-5.12 Ecco Parallel cable SUN-BATT-5.12 Ecco to PCS cable
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