

Powerlynk 6/8kW XLS



The Sunsynk Powerlynk 6/8kW XLS is a versatile energy storage solution designed for various applications. Its applications include:

- ON Grid: Connects to the grid to supply power to home loads and charge the battery.
- ON Grid + Backup: Provides grid-connected power with the ability to switch to backup power during outages, ensuring essential loads remain powered.
- OFF Grid: Operates independently of the grid, ideal for remote locations or standalone systems.

Technical Data

Model	General Specification	SM6.0kWPLXLS
Max. DC Input Power	PV String Input	8000 W (4000 W x 2)
DC Input Voltage	PV String Input	500 V
MPPT Voltage Range	PV String Input	120 ~ 450 V
Start-Up Voltage	PV String Input	150 V
Max. Input Current	PV String Input	30 A (15 A x 2, 2 MPPT Channels)
Max. Output Power	AC Output (Back-Up)	6000 W
Peak Output Apparent Power	AC Output (Back-Up)	12000 VA
Max. Output Current	AC Output (Back-Up)	26 A
Nominal Output Voltage	AC Output (Back-Up)	220/230/240 Vac Single-Phase (Configurable)
Nominal Output Frequency	AC Output (Back-Up)	50/60 Hz (+/-0.2%, Configurable)
Max. Bypass Current	AC Output (Back-Up)	40 A
Shift Time (Bypass and Inverter)	AC Output (Back-Up)	10 ms
Max. Input Power	AC Input (On-Grid)	6000 W
Max. Apparent Input Power	AC Input (On-Grid)	6000 VA
Max. Efficiency	Efficiency	97.6%
Max. Battery to Load Efficiency	Efficiency	94.0%
MPPT Efficiency	Efficiency	99.9%
Protection	Protection	Battery Over-Charge, Low-Voltage, Over-Temperature, Output Overload, Short Circuit
Max. Charge/Discharge Current	Performance	100 A
Communication	Performance	RS232/RS485/CAN
Display	Performance	SOC Status Indicator, LED Indicator
Dimension (WxDxH)	General Specification	516 x 179 x 1128 mm
Weight	General Specification	32 kg
Operating Temperature	General Specification	Charge: 0 to 50°C, Discharge: -15 to 50°C
Environmental Humidity	General Specification	≤95% RH (Non Condensation)
Ingress Protection Rating	General Specification	IP41
Scalability	General Specification	Max. 2 Units in Parallel