POWERLYNK SERIES

Introducing the Powerlynk S, Powerlynk X & Powerlynk XL by Sunsynk Mobile.
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 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 and play" system.

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

Model	Powerlynk S SM2.5kWPL	Powerlynk X SM3.6kWPL	Powerlynk XL SM5.5kWPL
Battery Input Parameters			
Supported Battery Type	$LiFePO_4$		
Nominal Battery Voltage (V)	51.2		
Battery Input Voltage Range (V)	43.2~57.6		
Max. Charge Voltage (V)	60 (Configurable)		
Max. Charge Current (A)	42 (Configurable)	60 (Configurable)	90 (Configurable)
Max. Discharge Current (A)	56 (Configurable)	80 (Configurable)	120 (Configurable)
Battery Capacity (Wh)	2000	3840	5223
PV String Input Parameters			
Max. DC Input Power (W)	3000	4500	6800
Max. DC Input Voltage (V)	500		
MPPT Voltage Range (V)	120~450		
Start-Up Voltage (V)	150		
Max. Input Current (A)	12	12 (Total of two MC4 sets combined)	16 (Total of two MC4 sets combined)
AC Output Parameters (Back-Up) (Feed to Essential Load)			
Max. Output Power (W)	2500	3600	5500
Max. Output Apparent Power (VA)	2500	3600	5500
Peak Output Apparent Power (VA)	5000	7200	11000
Max. Output Current (A)	11	16	24
Nominal Output Voltage (Vac)	230		

Model	Powerlynk S SM2.5kWPL	Powerlynk X SM3.6kWPL	Powerlynk XL SM5.5kWPL
Nominal Output Frequency (Hz)	50		
Max. Bypass Current (A)	20	40	
Shift Time (Bypass and Inverter) (ms)	10		
Output THD (Resistor Load)	<3%		
AC Input Parameter (On-Grid)			
Max. Input Power (W)	2500	3600	5500
Max. Output Power (W) (Feed to Home Load)	2500	3600	5500
Max. Apparent Input Power (VA)	2500	3600	5500
Max. Apparent Output Power (VA)	2500	3600	5500
Nominal Input / Output Voltage (Vac)	230		
Nominal Input / Output Frequency (Hz)	50		
Max. Bypass Current (A)	20	40	
Shift Time (Bypass and Inverter) (ms)	10		
Dimensions			
Size (H x L x W mm)	701 x 544 x 105	701 x 544 x 182	901 x 624 x 182
Net Weight	38.5kg	51.7kg	82.0kg
Efficiency			
Max. Efficiency	97.6%		
Max. Battery to Load Efficiency	94.0%		
Europe Efficiency	97.0%		97.6%
MPPT Efficiency	99.9%		
General Data			
Operating Temperature Range	-25°C ~ +50°C		
Smart Meter Port	Yes (Model dependent)		
Cooling Concept	Fan		
Protection			
Integrated	Battery Over-Charge Protection, Battery Low-Voltage Protection, Over-Temperature Protection, Output Short-Circuit Protection, Output Over-Voltage Protection, Output Overload Protection		
Degree of Protection	IP20		
Protection Class	Class I		
Smoke Detector Port	Yes (Model dependent)		
Self-Heated Battery Work Logic	Yes (Model dependent)		
Compliances			

This Grid support interactive inverter complies with IEC/EN 62109-1, IEC/EN 62019-2, IEC/EN 61000-6-1/2/3/4, NRS 097-2-1, IEC 62619, UN38.3