

# Powerlynk Lynks 6kW

Industry leading technology.

Introducing the Powerlynk Lynks 6kW, for the times where you need flexibility and value of a Powerlynk, but not necessarily the integrated storage.

The Powerlynk Lynks works with conventional PVs and micro inverters, providing versatility for various scenarios. It delivers robust power, meeting diverse energy needs efficiently.

Twin MPPT technology maximises solar energy harvest by adjusting output to match peak panel efficiency throughout the day. Compatible with all Sunsynk low-voltage batteries, the Sunsynk Mobile Lynks offer flexible battery options to suit your needs.

Add a Sunsynk Data Logger to the inverter to manage energy use and reduce reliance on traditional sources, simplifying solar energy management.



## Powerlynk Lynks 6kW

### 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	100A (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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