

## Luxwatt 1.2kW Solar Inverter Specs

This model is a hybrid off-grid inverter designed for 12V systems.

Feature	Specification
Rated Power	1200W / 1.2kVA
Peak Surge Power	2400W (for 5 seconds)
Output Waveform	Pure Sine Wave
AC Output	230VAC $\pm$ 5%, 50Hz/60Hz (Auto)
Battery Voltage	12VDC
Max PV Array Power	1500W – 1600W
MPPT Voltage Range	17VDC – 80VDC (up to 120V on some revisions)
Max PV Open Circuit	100VDC – 150VDC
Max Charge Current	50A (Solar) / 20A (AC)
Transfer Time	<10ms (UPS mode) / 20ms (Appliance)
Dimensions	~350 x 270 x 100 mm
Net Weight	6.5 kg

## Luxwatt 1.28kWh Lithium Battery (LUX-12100FP)

Often paired with the 1.2kW inverter for a complete "compact power station" setup.

- **Capacity:** 12.8V 100Ah (1.28kWh)
- **Chemistry:** LiFePO4 (Lithium Iron Phosphate)
- **Cycles:** Designed for >4000 cycles at 80% DOD
- **Protection:** IP65 Waterproof & Dustproof
- **Charge Temp:** 0°C to 55°C

- **Features:** Optional Bluetooth monitoring and LCD status display

## Key Usage Notes

- **Battery Compatibility:** Works with both **Lithium** and **Lead-acid** (AGM/Gel) batteries.
- **Protection:** Built-in safeguards against overload, short circuits, and over-temperature.
- **Monitoring:** Includes an LCD for real-time data; some models support RS485 or Wi-Fi sticks for app-based tracking.

Would you like me to help you find a **user manual** for the setup process, or are you looking for **pricing and availability** in a specific region?