

lytup

TECHNICAL BROCHURE

# PawaFlux

Lytvolt PawaFlux - All-in-One Solar Generator

*"Power. Anywhere. Always."*



**1.2 kW**

Inverter Power

**2.5 kWh**

Battery Capacity

**≤ 15 ms**

UPS Transfer Time

**x 4**

Stackable Units

**Applications:** Residential | SME | Off-Grid | Backup Power | Solar + Grid Hybrid

## PRODUCT OVERVIEW

### System Overview

The Lytvolt PawaFlux is a preconfigured all-in-one solar generator that integrates a high-capacity Lithium Iron Phosphate (LFP) battery, a pure-sine-wave inverter, and intelligent power management into a single portable enclosure. Designed for residential and SME use across markets with unreliable or no grid access, the PawaFlux delivers clean, stable AC power charged via solar and/or grid input.



Side View



Front view

## KEY FEATURES

### Core Capabilities

#### Dual-Mode Charging

Accepts both solar PV input (up to 500 W) and AC grid input (up to 1,000 W) with automatic source management and simultaneous charging capability.

#### LFP Battery Chemistry

Lithium Iron Phosphate cells deliver superior cycle life (3,000+ cycles), thermal stability, and deep-discharge tolerance compared to lead-acid alternatives.

### Pure Sine Wave Inverter

1.2 kW inverter produces a clean 220-240 V / 50 Hz AC output compatible with all sensitive electronics, motors, and appliances.

### UPS Function $\leq 15$ ms Transfer

Ultra-fast transfer time ensures uninterrupted power to connected devices during grid outages suitable for computers and critical loads.

### Smart Connectivity

Bluetooth, 4G/GPRS, and GPS built in for full remote monitoring, on/off control, and GPS asset tracking via the Lytup mobile app.

### Modular Scalability

Stack up to 4 units in parallel to reach a combined 10 kWh storage capacity and 4.8 kW combined inverter output for larger loads.

## ELECTRICAL SPECIFICATIONS

### Power & Inverter

INVERTER & AC OUTPUT	
Rated Power	<b>1.2 kW</b>
AC Output Voltage	<b>220-240 V</b>
Frequency	<b>50 Hz</b>
Phase	<b>Single Phase</b>
Output Waveform	<b>Pure Sine Wave</b>

CHARGING INPUTS	
Solar (PV) Input	<b>Up to 500 W</b>
AC Grid Input	<b>Up to 1,000 W</b>
AC Input Port	<b>IEC C14</b>
Charge Modes	<b>Solar + Grid (Auto)</b>

UPS Transfer Time	<b>≤ 15 ms</b>
AC Outlet 1	<b>Type G (BS 1363)</b>
AC Outlet 2	<b>Type G (BS 1363)</b>
AC Outlet 3	<b>Type D (IS 1293)</b>

12 V DC Output	<b>12.6 V / 10 A</b>
USB-A Output	<b>Multiple Ports</b>
USB-C PD Output	<b>Up to 100 W / port</b>
USB PD Rating	<b>22.5 W</b>

## BATTERY SPECIFICATIONS

### Energy Storage

BATTERY PACK	
Chemistry	<b>Lithium Iron Phosphate (LFP / LiFePO4)</b>
Nominal Capacity	<b>2.5 kWh</b>
Nominal Ah Rating	<b>100 Ah</b>
Expandability	<b>Up to 4 units in parallel</b>
Max Combined Capacity	<b>10 kWh (x4 stack)</b>
Battery Management	<b>Integrated BMS</b>
Cell Protection	<b>OVP / UVP / OCP / OTP</b>

### Why Lithium Iron Phosphate (LFP)?

- 3,000+ charge cycles vs ~300 for standard lead-acid batteries
- No thermal runaway risk inherently safer chemistry than NMC or LCO lithium
- Stable output voltage across the full state-of-charge range
- Better performance in high-temperature environments typical across Africa



*Input / Output Panel - PV inputs, AC input, 12V DC output.*

## CONNECTIVITY & SMART FEATURES

### Remote Intelligence

CONNECTIVITY	
Local Connectivity	<b>Bluetooth</b>
Remote Connectivity	<b>GPRS / 4G / LTE</b>
Positioning	<b>GPS</b>
Display	<b>Integrated LCD</b>
SIM Card	<b>Provided by Lytup</b>
Remote Monitoring	<b>Yes - Real-Time</b>
Remote Control	<b>On/Off via App</b>
Platform	<b>Lytup Control Center</b>

REAL-TIME MONITORED PARAMETERS	
State of Charge	<b>0-100% Battery Level</b>
Charge Status	<b>Charging / Discharging</b>
Charge Rate	<b>W / kW input</b>
Discharge Rate	<b>W / kW output</b>
System Temperature	<b>Battery &amp; Inverter (°C)</b>
Connectivity Status	<b>Bluetooth / 4G</b>
GPS Location	<b>Asset Tracking</b>

## PHYSICAL SPECIFICATIONS

### Form Factor & Installation

DIMENSIONS	
Width	<b>500 mm (±0.5 mm)</b>
Height	<b>380 mm (±0.5 mm)</b>
Depth	<b>156 mm (±0.5 mm)</b>

INSTALLATION	
Carry Handle	<b>Integrated top handle</b>
Form Factor	<b>Portable enclosure</b>
Mounting	<b>Floor standing / stackable</b>
Ventilation	<b>Active (side vents)</b>



Port panel & side vents



Connectivity view

**QUICK REFERENCE**

**Complete Specifications Summary**

<b>FULL TECHNICAL SPECIFICATIONS</b>	
Inverter Rated Power	<b>1.2 kW</b>
AC Output Voltage	<b>220 - 240 V</b>
Output Frequency	<b>50 Hz</b>
Output Phase	<b>Single Phase</b>
Output Waveform	<b>Pure Sine Wave</b>
UPS Transfer Time	<b>≤ 15 ms</b>
Battery Chemistry	<b>Lithium Iron Phosphate (LFP)</b>
Nominal Capacity	<b>2.5 kWh</b>
Ah Rating	<b>100 Ah</b>
Max Stacked Capacity	<b>10 kWh (4 units)</b>
Battery Management	<b>Integrated BMS</b>
Solar PV Input	<b>Up to 500 W (2 ports)</b>

AC Grid Input	<b>Up to 1,000 W</b>
AC Outlets	<b>Type G x2, Type D x1</b>
USB-A	<b>Multiple ports</b>
USB-C PD	<b>Up to 100 W / port</b>
12V DC Output	<b>12.6 V / 10 A</b>
Built-in LED	<b>Yes</b>
Local Connectivity	<b>Bluetooth</b>
Remote Connectivity	<b>GPRS / 4G</b>
Positioning	<b>GPS</b>
Display	<b>Integrated LCD</b>
Dimensions (W x H x D)	<b>500 x 380 x 156 mm (±0.5 mm)</b>
Form Factor	<b>Portable enclosure + handle</b>
Installation	<b>Floor standing / stackable (x4)</b>
Mobile App	<b>Android &amp; iOS (Lytup App)</b>

## Ready to switch to clean, reliable energy?

Contact the Lytup team

Email: [info@lytup.co](mailto:info@lytup.co) |

Web: [www.lytup.co](http://www.lytup.co) |

App:



*Lytvolt PawaFlux*