

# LMUPS-80-24 /48

## Ruggedized Uninterruptible Power Supply

**Input 10.5 - 30 VDC/ 6A**

**Output 6 - 24 V or 48 VDC/ 6A**

Military-Grade Uninterruptible Power Supply UPS unit is designed for the extreme environmental and demanding electrical conditions of military ethernet switches. OPTOKON's UPS features a proven design and rugged packaging technologies of OPTOKON **Switches LMSW** series. The electronic circuitry and battery are contained in a sealed chamber constructed from a die-cast aluminum chassis that is weather-proof and shock-proof. This UPS will accept a wide range of input voltage values while delivering a well-conditioned **6 - 24/48 VDC output** to the ethernet switch. Highly efficient power electronic circuitry achieve a high power level and battery run-time in a low-profile, low-weight, rack-mountable package.

The UPS was designed to provide user specified regulated power output from a **wide input voltage**, battery backup and cell balancing. The unit automatically switches the power path in between Battery and Main DC input and provides buck/boost output regulation.

The UPS provides **Intelligent features over USB** interface. MS Windows detects UPS as Battery and automatically shows battery in the system tray. In case of low battery situations, the system can send an ON/OFF pulse (or by reporting remaining battery capacity via USB) to a motherboard in an attempt to gracefully shut down the system. The UPS has strong **Windows / Linux support**.

Charge current, float voltage and bulk charging parameters can be setup via USB interface into the UPS non volatile flash memory. UPS provides accurate fuel gauge capabilities by precisely measuring the input and output current flow.

### KEY FEATURES

- Input 10.5 – 30 VDC/ 10 A or 176-242 VAC/ 140 W max.
- Generate any output voltage between 6 – 24 V or 48 VDC (User configurable via USB port)
- Support multiple battery chemistry up to 6 cells (default Li-ion)
- Deep Sleep Current battery Consumption. < 50 µA
- Maximum output current: 6 A\* Peak output Current: 10 A (<30 seconds)
- 2 x Display LED: Status battery and Main LED (more blink modes)
- Operating temperature when UPS is running from Input -40 – 60 °C
- Operating temperature when UPS is running from battery -20 – 60 °C
- MIL-STD-810G for thermal, shock, vibration, humidity and MIL-STD-461 for EMI/EMC conditions
- Weight: 5 kg
- Dimensions: 430 x 276 x 65 mm (W x D x H).

### BATTERY CELLS SPECIFICATIONS

- |  |               |
|--|---------------|
| ➤ Chemistry                                      | Lithium Ion   |
| ➤ Minimum Capacity                               | 13.4 Ah       |
| ➤ Watt Hour Capacity                             | 294 Wh        |
| ➤ Charging Time                                  | Std. 9 h      |
| ➤ Weight (max.)                                  | 1.4 kg        |
| ➤ Discharge Temperature                          | -20 to +60 °C |
| ➤ Charge Temperature                             | 0 to +45 °C   |
| ➤ Storage Conditions (Recoverable Capacity 80%): |               |
| - less than 1 month                              | -20 to +50 °C |
| - less than 3 months                             | -20 to +40 °C |
| - less than 1 year                               | -20 to +20 °C |

## ORDER CODE:

LMUPS-80		-	XX		-	XX	
		Output				Power Supply	
24	6 - 24 VDC, User configurable			AC/DC	AC/DC		
48	Switchably 6 - 24 or 48 VDC			DC	DC		

## ACCESSORIES INCLUDE:

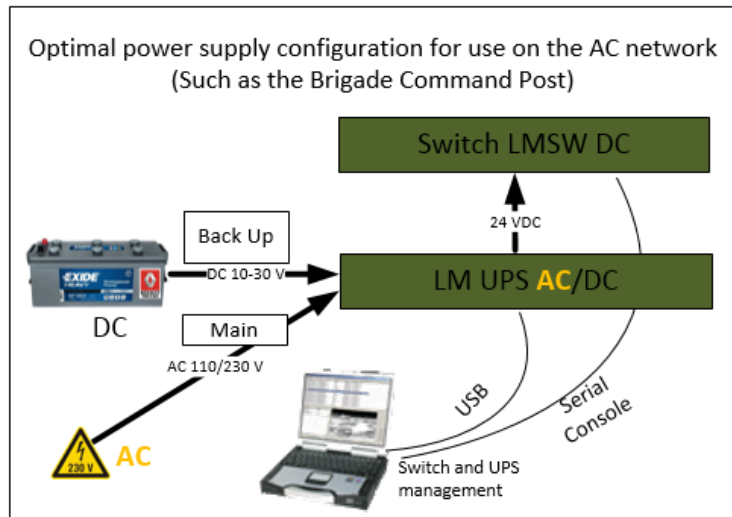
- AC Power cable: LMSW08-PSC-02-EU\*
- DC Power cable: LMCAB-PSC-03-62GB-16J08-33SN-DC
- DC UPS Connecting cable, LMUPS-80 to LMSW Switch
- Rack Mount Ears

*\*Note: Optionally other lengths and connector types*



Fig. LMUPS-80-24-AC/DC

## COST-OPTIMAL POWER SUPPLY CONFIGURATION



## RECOMMENDED VOLTAGE VARIATION UPS

	UPS version	
	LMUPS-80-24V	LMUPS-80-48V
Recommended Switch	LMSW-42M	LMSW-16XM
	LMSW-8xM	LMSW-240M
	LMSW-xxH	LMSW-16xH