

UXOR Battery Charger

Model Number: THRSLCHG1001

Overview

The **UXOR Battery Charger** is a ruggedized charging unit designed for **LiFePO₄ and Lead Acid battery systems** used in defense and industrial platforms. It delivers stable charging performance with advanced protections to ensure safe and efficient energy replenishment.

Proven in field deployments, it has been **supplied to DRDO Pune R&DE and Indian Air Force (IAF)**, where it supports mission-critical unmanned and robotic systems.

Technical Specifications

Parameter	Specifications
Input Voltage	230V AC $\pm$ 10%, 50 Hz
Output Voltage	24V DC (configurable)
Output Current	20A max
Battery Compatibility	LiFePO ₄ / Lead Acid
Charging Algorithm	CC–CV (Constant Current – Constant Voltage)
Protections	OVP, OCP, SCP, OTP, Reverse Polarity
Efficiency	$\geq$ 85%
Indicators	LED status for Power, Charging, Fault
Cooling	Forced air cooling
Dimensions	(Insert actual size if available)
Weight	(Insert actual weight if available)
Operating Temperature	-20°C to +55°C
Protection Standard	IP65

Key Features

- High-efficiency **24V DC charger** (20A max output)
 - Compatible with **LiFePO₄ and Lead Acid batteries**
 - **CC–CV charging algorithm** ensures safe battery life cycles
 - Built-in protections: **OVP, OCP, SCP, OTP, Reverse Polarity**
 - Rugged design with **IP65 protection**
 - Field-proven in defense programs with **DRDO Pune R&DE and IAF**
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Applications

- UXOR robotic platforms
- Defense-grade unmanned systems (UGV/ROV)
- Industrial automation requiring rugged battery charging
- Portable charging for LiFePO₄ and Lead Acid systems



Note

The **UXOR Battery Charger** is part of **THRSL's standard technology suite**, designed for **plug-and-play deployment** across industries. Its proven supply to **DRDO Pune R&DE and Indian Air Force (IAF)** demonstrates its reliability in mission-critical applications.

Custom versions can be developed for alternate output voltages, higher current ratings, or specialized connectors.