

24V U1-25

U1LiFe™ Series | Technical Data Sheet

inVENTUS™
POWER



Certified to global safety standards



Fast charging
within 3 hours



Long shelf life performance
with shutdown mode



Automotive grade cells
from top tier manufacturers



- **Plug & play lead acid replacement**
- **UL2054** Shock & Vibration + Thermal Propagation Mitigation
- **Compatible with many off-the-shelf chargers**
- **Increased life cycles** up to 10X over sealed lead acid

Electrical Specifications

Cell Chemistry	LiFePO4
Pack Voltage (Nom/Max)	25.6V / 29.2V
Pack Energy Typ (min)	676Wh (670Wh)
Capacity Typ (min)	26.4Ah (26.2Ah)*
Specific Energy	102Wh/kg
Continuous Power	512W / 20A
Recommended Charge CCCV	12.8A / 29.2V
Peak Power (<10sec)	716W (28A)
Cycle Life (Based on cell data @ 25°C)	3,000 @ 80% DoD

Operational Specifications

Charge Temp	0°C to 40°C
Discharge Temp	-20°C to 60°C
Storage Temp	-40°C to 60°C
Humidity (Operating)	5% to 95%

Mechanical Specifications



Dimensions Typ (max) 209 x 136 x 184 mm (209.7 x 137.2 x 185 mm)

Terminal Type (ISO) M6

Terminal Torque (Nm) 3.1 ± 0.3 Nm

Weight 6.8 kg (15.0 lbs)

Installation Orientation Horizontal / Vertical

Ingress Protection Rating IP51

Case Flammability Rating Flame Retardant UL94 V-0

Certifications

- UL/CSA62133-2:20
- UL2054
- IEC62133-2:2017
- RoHS
- EMC
- UN/DOT 38.3

*Usable capacity will depend on charge voltage, the depth of discharge, age, and other environmental conditions.

Inventus Power reserves the right to make adjustments to this document at any time, without notice or obligation.

All data in this publication is for reference use only. Models may vary from shown.

inventuspower.com | info@inventuspower.com | +1 877.423.4242

TDS_24V-U1-25_2025_Nov V1

Market Applications



Medical Carts



E-Mobility



Industrial Carts



Request more info