

# 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.  
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### Market Applications



Medical Carts



E-Mobility



Industrial Carts



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