12V U1-45

U1LiFe™ Series | Technical Data Sheet





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)	12.8V / 14.4V
Pack Energy	591Wh (46Ah)
Specific Energy	92Wh/kg
Continuous Power	256W / 20A
Recommended Charge CCCV	20A / 14.4V
Peak Power (<30sec)	358W (28A)
Cycle Life (@ 25°C)	3,000 @ 80% DoD

Compatible Inverters	
Tripplite	HC15OSL HCINT15OSL HC12ODC
PowerVar	ABCE150

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)	20% to 80%	

Mechanical Specifications	
185mm 7.3"	209.7mm 8.3"
BCI Size	U1
Terminal Type (ISO)	M6
Terminal Torque (Nm)	3.1 ± 0.3 Nm
Weight	6.46kg (14.24lbs)
Installation Orientation	Horizontal / Vertical
Ingress Protection Rating	IP51
Case Flammability Rating	Flame Retardant UL94 V-0

Certifications	
UL/CSA62133-2:20UL2054IEC62133-2:2017	RoHSEMCUN/DOT 38.3

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Market Applications







