

U1 Sized Battery Solutions

U1LiFe® Series



U1LiFePRO™ Series



Specifications	12V U1-40	12V U1-45	12V U1-50	24V U1-25	12V40-U1	24V20-U1
Cell Chemistry	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Pack Voltage (Nom/Max)	12.8V / 14.6V	12.8V / 14.6V	12.8V / 14.6V	25.6V / 29.2V	12.8V / 14.4V	25.6V / 28V
Pack Energy	502.2Wh / 39.2Ah	585.9Wh / 45.8Ah	669.6Wh / 52.3Ah	655.3Wh / 26.1Ah	502Wh / 39.2Ah	502Wh / 19.6Ah
Continuous Power	0.7kW / 20A	0.9kW / 20A	1.0kW / 20A	0.5kW / 20A	0.51kW / 40A	0.77kW / 30A
Peak Power (<10secs)	0.3kW / 25A	0.3kW / 25A	0.3kW / 25A	0.6kW / 25A	1.02kW / 80A	1.54kW / 60A
Cycle Life (@ 25°C)	2,000 @ 100% DoD	2,000 @ 100% DoD	2,000 @ 100% DoD	2,000 @ 100% DoD	3,000 @ 80% DoD	3,000 @ 80% DoD
Scalability	N/A	N/A	N/A	N/A	M-12V40-U1* Up to 10 in parallel S-12V40-U1* Up to 6 in parallel	M-24V20-U1* Up to 10 in parallel S-24V20-U1* Up to 6 in parallel
Dimensions (mm)	209 x 137 x 184	209 x 137 x 184	209 x 137 x 184	209 x 137 x 184	191 x 134 x 185	191 x 134 x 185
Weight	6.0 kg / 13.2 lbs	6.5 kg / 4.3 lbs	7.0 kg / 15.4 lbs	7.0 kg / 15.4 lbs	5.7 kg / 12.6 lbs	5.7 kg / 12.6 lbs
Communication	SMBus	SMBus	SMBus	SMBus	M-12V40-U1* CANopen / SMBus S-12V40-U1* Lead Acid / CANopen	M-24V20-U1* CANopen / RS485 S-24V20-U1* Lead Acid / CANopen
Shelf Life	1 year	1 Year	1 Year	1 Year	2 Years	2 Years
Ingress Protection	None	None	None	None	IP56	IP56
Charge Temp	0° to 55°C	0° to 55°C	0° to 55°C	0° to 55°C	0° to 55°C	0° to 55°C
Storage Temp	-40° to 60°C	-40° to 60°C	-40° to 60°C	-40° to 60°C	-20° to 60°C	-20° to 60°C
Certifications	UN /DoT 38.3, IEC62133, UL 1642, UL2054, CE Mark	UN / DoT 38.3, IEC62133, UL 1642, UL2054, CE Mark	UN / DoT 38.3, IEC62133, UL 1642, UL2054, CE Mark	UN / DoT 38.3, IEC62133, UL 1642, UL2054, CE Mark	UN / DoT 38.3, IEC62133, UL 1642, UL2054, CE Mark	UN / DoT 38.3, IEC62133, UL 1642, UL2054, CE Mark

* **U1LiFePRO** is available in two models: **M** = supports smart system integration requiring enhanced communication & functionality. **S** = plug & play, drop-in lead acid replacement solution.