



Preliminary

Category: Energy Storage

Battery (Lithium), 2.4 kWh

Item # 02-1000057

Stackable Power

The lithium 2.4 kWh battery is ideal for large energy storage applications where weight and high cycle life are key. The battery stacks for a minimum footprint and simple storage. The internal battery management system (BMS) protects both the battery and operator if a fault is detected and communicates individual battery status via an external reader. The SB120 connector on the front allows the batteries to be safely and easily maintained, while still having a secure, polarized connection.



General

Nominal Voltage	24 VDC
Battery Chemistry	LiFePO ₄
Capacity	100 Ah
Energy Storage	2.4 kWh
Energy Density	68 Wh/kg
Max Charge Rate	50 A
Max Discharge Rate	100 A continuous
Self-discharge Rate*	< 5% per month
Cycle Life*	~ 3000 cycles @ 0.8C to 80% depth of discharge
Storage Life*	1 year
Battery Voltage Range	21.6 to 29.2 VDC
Battery Monitoring	I2C
Case	Pantone 424 gray, ABS plastic
Warranty	1-year materials and workmanship

*@ 77 °F (25 °C)

Safety

Internal Protections	<ul style="list-style-type: none"> Self-shut down in unsafe conditions (under/over voltage and current protection) Built-in continuous self-balancing Hermetically sealed cells with integrated over pressure safety vent
Certifications	IEC 61000-4-2 Class 4, UN 38.3

Connections

Power	SB120 Anderson
Data	(1) RJ-45 (for optional MKM BMS Reader)

Features

- Tremendous cycle life
- Individual battery monitoring (BMS Reader)
- One-year storage life
- Polarized DC connection
- (2) Thermostatically controlled fans for high-temperature operation
- LED indicator of battery status
- Stackable/interlocking design

Environmental

Operating Temperature**	-13 °F to +149 °F (-25 °C to +65 °C)
Storage Temperature***	-22 °F to +158 °F (-30 °C to +70 °C)

**Operating outside of +41 °F to +113 °F (+5 °C to +45 °C) will accelerate the battery aging process

***Prolonged exposure to high temperatures in storage will reduce battery life.

Weights and Dimensions (L x W x H)

Weight	77 lb (35 kg)
Dimensions	13.4 x 9.0 x 21.3 in (34 x 22.86 x 54.1 cm)

Transportation

Transportation Class	Class 9, UN3480
Harmonized Tariff Code	8507.60.0020

