



24VDC Li Expander Pak 2400

tem # 21-0202303

Fit to Ship

The 24VDC Li Expander Pak 2400 is an energy storage module that provides the greatest energy storage capacity possible while meeting shipping weight regulations for land, sea, and air cargo. The lithium iron phosphate (LiFePO₄) Expander Pak stores 2.4 kWh of energy, has an internal battery management system (BMS), and is ideal for applications needing maximum power in a minimal footprint.

How an Expander Pak Works

Energy storage modules like the Expander Pak, or batteries, are the heart of a hybrid power system. Power from a generation source is funneled through a power management device to the Expander Pak to store the energy. This stored energy is distributed by a power manager to power the load as needed. Daisy-chain additional Expander Paks to increase energy storage capacity.









Features

- 2.4 kWh of storage
 - o Capable of over 3000 cycles
 - Advanced internal BMS
- LiFePO, chemistry
 - o 100% discharged = inert
 - o Transportable by land, sea, and air cargo
- Ruggedized for extreme conditions
- Open architecture
- Stacks vertically with all Pelican 16XX cases
- MIL-STD-810G tested; GVT Safety Confirmation for worldwide deployment

Why Solar Stik?

Modular, Scalable Architecture Field-proven, Rugged Designs Experienced Team 24/7 Tech Support





24VDC Li Expander Pak 2400

Category: Energy Storage

General	
Battery	(1) 24 VDC Lithium iron phosphate (LiFePO ₄)
Operating Voltage	24.0–28.8 VDC
Capacity	100 Ah
Energy Storage	2.4 KWh
Energy Density	48 Wh/kg
Max Charge Rate	50 A continuous
Max Discharge Rate	50 A continuous
Self-discharge Rate	<5% per month
Cycle Life*	≥ 3000 cycles to 80% State of Health
Shelf Life*	5.6 years to 80% State of Health 7.0 years to 75% State of Health
User Interface	Ready/Fault push-to-check LED indicator
Transport Case	Pelican 1620
Transportation	UN3841 Class 9 Lithium-ion batteries contained in equipment Air transport by cargo aircraft only
Warranty	1-year materials and workmanship

*@ 77 °F	725°C
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Safety

Breaker(s)	50 A Inter-connect	circuit protection

Battery Management System Protection	
Overvoltage Limit	29.2 V
Undervoltage Limit	21.6 V
Overdischarge Current Limit	120 A
Overtemperature Limit	160 °F (71 °C)



Connections	
DC	(1) 24 VDC lithium Inter-Connect port (Deltran 224-0061-BK)
Battery Data	(1) RJ-45 (for optional MKM BMS Reader)

Environmental	
Operating Temperature	-13 to +149 °F (-25 to +65 °C)
Charging Temperature	+41 to +113 °F (+5 to +45 °C)
Storage Temperature	-22 to +158 °F (-30 to +70 °C)
Humidity	0 to 95% RH noncondensing
Certifications	MIL-STD-810G tested Internal battery has passed UNDOT 38.3 testing and is certified to ship globally

Weights and Dimensions (L x W x H)	
Weight	110 lb (49.9 kg)
Dimensions	24 76 x 13 90 x 19 57 in (62 9 x 35 3 x 49 7 cm)

Case Color Options







Standard Color Optional Colors

Recommended Components and Accessories



24VDC Li Power Pak 2400 Item # 21-0202306



24VDC 5 Foot Inter-Connect Cable Item # 13-0000032



24VDC Li Battery Maintainer 120/230



24VDC Inter-Connect Strip 7 Item # 13-1000160



Item # 14-10010000