

U27-24XP Module

24 Volt Lithium Ion Battery Module

The U27-24XP is a high-performance, 24-volt battery, built on Valence's patented Lithium Iron Magnesium Phosphate chemistry platform. Customers now have a choice of a 12, 24, or 36V battery in a Group 27 size case, each providing over 1.76 kWh.



Overview

The U27-24XP is ideal for material handling or stationary energy storage applications. The module's inherent safety, long cycle life, and zero maintenance offers end-users another alternative to lead acid by replacing with this reliable lithium ion solution.

The U-Charge[®] Battery Management System (U-BMS) integrates seamlessly with U27-24XP applications. Utilizing Valence's Command and Control Logic, the battery system manages all battery module parameters in real-time and system information can be monitored via CANbus.

Features

- + Maintenance Free
- + >4000 cycles @ 80% DOD
- + Exceptional Voltage Stability
- + String Voltage 24 - 1000 V
- + Rugged Mechanical Design
- + Temperature Monitoring of Cells and Terminals
- + Dual Hole Terminals include thread locking feature
- + Automatic System Cell Balancing
- + Fully Integrates with U-Charge[®] BMS
- + Excellent Float Life
- + Footprint of Group 27 Lead Acid
- + Series or Parallel Operation
- + No Hydrogen Generation or Gassing

Specifications	U27-24XP	
Nominal Voltage	25.6 V	
Nominal Capacity	69 Ah	
Charge Voltage	29.2 V	
Charge Current	Recommended	35 A
Charge Current	Max Continuous*	70 A
Discharge Voltage	Minimum	20 V
Discharge Current	Max Continuous*	140 A
Pulse Current	30 seconds	210 A
Weight	18.6 kg	
Terminals	Female-Threaded	M8 x 1.25
Exterior Dimensions	(LxWxH) mm	306 x 172 x 225
Certifications	In process	UL 2580

All values at 23°C ambient
 *Duty cycle evaluation required to determine suitability.
 Consult Valence to discuss usage profile.