

Swappable Industrial Battery: SWIB-1000

Overview

Designed for mobile industrial or medical workstations, the Swappable Industrial Battery (SWIB) from Green Cubes Technology exceeds the highest performance and regulatory requirements for mobile or motive equipment manufacturers. The SWIB is optimized for operator ergonomics and fast- or hot-swapping of workstation batteries. The SWIB utilizes a very accurate fuel gauge, has a five stage LED for battery status, and has active cell balancing on charge and discharge cycles.

The SWIB utilizes Lithium Iron Phosphate technology, which is the safest and most environmentally friendly cell chemistry available today. In addition, the SWIB provides the longest cycle life over any other Lithium-ion or Lead Acid batteries. The high current capability insures that the SWIB powers your in-base inverter or IT devices, as well as other mechanical subsystems that may have higher current needs. Finally, the extensive list of agency approvals ensures your mobile workstation maintains compliance with existing agency approvals.

To complement the SWIB, Green Cubes offers the Swappable Industrial Charger which supports integrated lithium-ion charging electronics and high current contact design to accommodate fast charging. Note the Swappable Industrial Charger requires an external power source of 60 Volts DC.

Features

- Lithium Iron Phosphate (LFP) Technology
- Exceptional cycle life relative to other lithium-ion or Sealed Lead Acid batteries
- Active cell balancing on charge and discharge maximizes runtime and battery life
- Ship and sleep modes ensure no capacity loss when not in use
- IP 65 Rating ensures watertight operation
- Five stage LEDs for state of charge indication
- Best warranty in the industry



SWIB-1000 Lithium-ion Battery Specification Chart

Nominal Voltage	51.2 Volts
Nominal Capacity	20 Amp Hour (1 KWh)
Continuous Discharge Current	30 Amps
Pulse Discharge Current	120 Amps for 0.5 seconds, 60 Amps for 2 seconds
Operating Temperature Range	-20°C to +40°C
Storage Temperature Range	-40°C to +60°C
Maximum Charge Voltage	57.6 Volts
Weight	9.5 Kg
Dimensions	Approx 180 W X 180 L X 330 H (mm)
Communication	SMBus
State of Charge Indication	Five stage LED
Operating Humidity	20% to 80%
Shipping Classification	Class 9
Contact Scheme	Amphenol contacts (rated 100 Amps)
Case Flame Rating	UL-94 V-0
Agency Approvals	UN 38.3, IEC 62133
Cycle Life and Warranty Terms	80% of capacity to 2000 cycles or 3 years
Battery Modes	Ship and Active
IP Rating	IP 65
Chemistry	Lithium Iron Phosphate

ABOUT GREEN CUBES TECHNOLOGY

Green Cubes Technology harnesses over 30 years of industry experience to ensure we design, develop and deliver solutions for the most challenging energy needs. We offer battery technology innovation, application design and performance management to drive productivity, scalability and sustainability.

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