

# Swappable Battery Platform

Customizable to Meet Your  
Application's Needs

## Overview

The swappable battery platform from Green Cubes is a pre-engineered energy storage platform available to equipment manufacturers to save time and money in their product's power system design. Green Cubes has 30 years of experience designing portable power platforms and integrating lithium-ion batteries, power management systems, and chargers.

The swappable battery platform consists of 3 parts, a core battery assembly, a power system controller and a standalone charger that can be directly integrated into any portable platform. This system allows for up to 3 batteries on the platform to be hot swapped to provide uninterrupted power to the end devices.

Designed with the OEM in mind, the Green Cubes swappable battery platform is configurable and can be easily incorporated into a comprehensive solution to provide the necessary power, facilitating integration with new or existing applications.

## Features

- Pre-Engineered package
- Flexible configurations
  - 1, 2 or 3 batteries
  - On or off-board charging
  - Pre-designed enclosure
- Hot Swap performance
- 290 Whr of energy storage per battery
- 2000+ Cycles
- Output 120VAC 60Hz
- Output Power up to 150 Watts

## Components

### 1. Battery

The battery is pre-engineered and manufactured by Green Cubes. The lithium iron phosphate battery pack stores 290 Whr of energy for the power system and features battery management, state of charge, state of health calculations, and delivers performance for over 2000 cycles.



### 2. Power System

A single controller for the mobile platform to manage output power and charging on board. The controller will connect up to 3 batteries in parallel, manage balancing, and enable hot swapping.

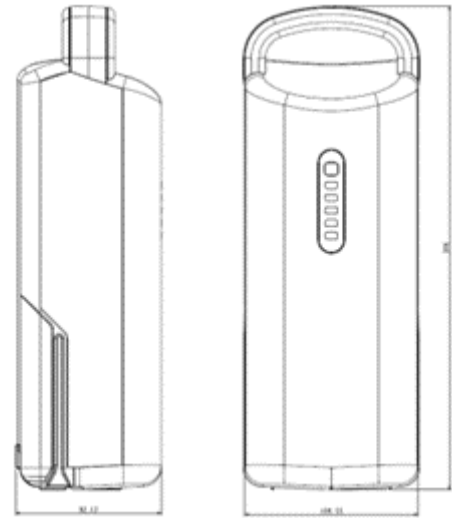
### 3. Charger

The charger can support up to 4 bays in a desktop or wall mount configuration. Using field-tested communication and battery management technology, each battery is charged independently to maximize efficiency and minimize user downtime.

## Technical Specifications

### Battery

Model	
Dimensions	312mm x 109.55mm x 92.12mm
Weight	Approx. 6 lbs
Voltage	12.8v Nominal
Capacity	22.8 Ah (290 Wh)
Configuration	4S6P
Chemistry	LiFePO4
Cycle life	2000 cycles
Storage Temp	-20-50°C
Operating Temp	10-40C
Max Current	12A (Charge and Discharge)
SOC Display	5 LED's
Certifications	UN38.3 IEC62133



### Power System

Model	
Supported Batteries	Up to 3 Swappable Batteries
Supported Batteries	11.1 - 14.4V
Power	120W Single Battery 150W 2 or 3 Batteries
Output Voltages	AC 120v/60Hz

### Charger

Model	
Supported Batteries	Up to 4
Voltage	11.1 - 14.4V
Battery Current	12A Max Charge
Charger	500 Watt
Certifications	IEC 60601

Charger	Integrated
Display	Remote LCD
Certifications	IEC 60601

### 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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