

Swappable Battery Platform

Customizable to Meet Your Application's Needs



The Swappable Battery Platform from Green Cubes is a preengineered 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 4 parts, a core battery assembly, a power system, a standalone charger that can be directly integrated into any portable platform, and a power dock. This system allows for up to 2 batteries on the platform to be hot swapped to provide uninterrupted power to the end devices.

The Green Cubes Swappable Battery Platform is configurable and customizable. Designed with the OEM in mind, it's as simple as design in and go. All the components can simply be integrated into a platform and provide all the power required.

Features

- Pre-engineered package
- Flexible configurations
 - 1 or 2 batteries
 - · On or off-board charging
 - · Pre-designed enclosure
 - · Customized enclosure
 - · Flexible Connector
- Hot-swap performance
- 290Whr of energy storage per battery
- 2000+ cycles



Components

1. Battery

Pre-Engineered and manufactured by Green Cubes this lithium iron phosphate battery pack stores 290Whr of energy. Features include complete Battery Management System, SOC and SOH calculations, and over 2000 cycles. Precertified to reduce time to market.

2. Power System

An AC output mobile platform for managing on-board charging and discharging will support connecting up to two batteries in parallel, handle balancing, and enable hot-swapping during operation.

3. Charger

Control charging current, voltage, profile, and prioritization. Using field tested communication and battery management processes each battery is charged independently for the fastest time to full.

4. Power Dock

This accessory utilizes our standard battery, allowing users to easily swap, charge, and discharge through a standard USB-C port.

GCT Standard Swappable System

Battery		
Capacity	15.2Ah/290Wh	
Voltage	19.2v Nominal	
Dimensions	312mm x 109.55mm x 92.12mm	
Weight	6 lbs	
Configuration	6S4P	
Chemistry	LiFeP04	
Charge Current	7.5A	
Discharge Current	17A	
SOC Display	5 LED's	
Protection	Primary / Secondary	
Cycle Life	2000 Cycles	
Certifications	UN38.3, IEC62133	

Power System		
Batteries Supported	1 or 2 Batteries	
Power	300VA	
Output Voltage	AC: 120V / 60Hz, 230V / 50Hz	
Power Supply	Integrated	
Inverter	Integrated	
BUB - Backup Battery	2 Minute run time for Hot Swap	
Display	Remote	
Communica- tion	USB	
Certification	IEC 60601	

Charger		
Batteries Supported	2 or 4 Independent Charging Bays	
Power Supply	500W Universal AC Input	
Communication	USB	
Certification	IEC 60601	







GCT Lite Swappable Power Dock

Power Dock		
Output Power	100W	
Charge Power	100W	
Output Voltage	15V to 20V USB-C Standard	
Connector	2 USB-C	
Certification	EMC, CE	



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.

For more information, email **info@greencubes.com** or visit **greencubes.com**

