



AC Swappable System

Overview

The AC Swappable System 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 AC Swappable System consists of 3 parts, a core battery assembly, a power system and a standalone charger that can be directly integrated into any portable platform. This system allows for up to 2 batteries on the platform to be hot swapped to provide uninterrupted power to the end devices.

The AC Swappable System 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
- 320Whr of energy storage per battery

Components

1. Battery

Pre-Engineered and manufactured by Green Cubes this lithium iron phosphate battery pack stores 320Whr of energy. Features include complete Battery Management System, and SOC and SOH calculations. Precertified to reduce time to market.

2. Power System

An AC and DC 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.

5. Standard Colors

The AC Swappable System is available in Dark Gray & Green for Industrial applications and Light Gray or White for Medical applications.



Specifications

AC Swappable System

Battery	
Capacity	16.7 Ahrs and 320 Whrs
Voltage	19.2v Nominal
Dimensions	312mm x 109.55mm x 92.12mm
Weight	-6 lbs
Configuration	6S4P
Chemistry	LiFeP04
Charge Current	9A
Discharge Current	17A
SOC Display	5 LED's
Protection	Primary / Secondary
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
Communication	USB
Certification	IEC 60601

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

USB-C Cradle Family

	Dual USB-C	Dual USB-C + DC	2 Bay Charger
Compatible Battery	Swappable Battery	Swappable Battery	Swappable Battery
Output Voltage	PD 3.0	PD 3.0	
DC Output Voltage		12v to 24v @ 5 Amps	
Output Power	100W	100W	
Max ChargePower	100W	100W	100W
Certifications	IEC 62368, CE	IEC 62368, CE	IEC 62368, CE





ABOUT GREEN CUBES TECHNOLOGY


Green Cubes Technology develops and manufactures a complete portfolio of lithium power systems that enable our OEM and enterprise customers to transition from Lead Acid and Internal Combustion Engine (ICE) power to Lithium-ion battery power. We utilize proven hardware and software platforms to build the most reliable lithium battery systems in our industries. With over 300 employees across six countries, Green Cubes has been producing reliable, high performance and high quality products for over 30 years.

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