

AUTE

The Next Generation of Mobile Energy Storage



Find out more : cybrand.co.uk/chargeqube

# Introduction

The Charge Qube is a revolutionary rapidly deployable Mobile Battery Energy Storage System and Mobile Electric Vehicle Supply Equipment (Type-2 or CCS) designed to meet the diverse and demanding needs of businesses, fleets, and infrastructure projects.

Designed for speed and efficiency, the Charge Qube can be rapidly deployed without the need for complex planning or infrastructure upgrades. Housed within a durable 10-foot sea container, it immediately integrates into existing energy or charging networks. Compact, modular, and built with sustainability at its core, the Charge Qube combines second-life EV battery technology with advanced energy management systems to deliver reliable, scalable, and versatile power wherever it is needed.

With a range of configurations tailored to specific use cases, it offers unmatched flexibility, whether for energy storage, overnight fleet EV charging or high-speed DC charging for public, industrial or construction-site applications. By extending the lifespan of EV batteries and supporting renewable energy integration, the Charge Qube is a practical solution for businesses looking to reduce costs and emissions while meeting modern energy demands and benefiting from energy arbitrage.

# Key Features:

- Scalable Modular Design: Expand capacity easily with stackable and linkable units.
- Sustainable Innovation: Utilizes repurposed EV batteries, extending their lifecycle up to 25 years in low-stress environments.
- Advanced Energy Management: Equipped with a Battery Management System (BMS) and inverter technology for optimal safety and performance.
- Versatility: Configurations include energy storage only, Type-2 AC charging, or CCS fast charging.
- Renewable-Ready: Directly integrates solar power for additional sustainability.
- Rapid Deployment: Drop-in-place capability ensures fast and hassle-free installation.
- Made in England: Manufactured in Bristol using repurposed containers and UK-sourced EV batteries, supporting local innovation and sustainability while staying cost-competitive.



With its robust features and flexibility, the Charge Qube is THE catalyst for sustainable energy innovation, anywhere, anytime.

Each configuration of the Charge Qube is designed with flexibility, scalability, and sustainability in mind, making it the ultimate energy solution for a wide range of industries and applications.

From industrial energy management to temporary power solutions for events and rapid deployment of EV charging infrastructure, the Charge Qube is designed to meet diverse energy needs efficiently and effectively.

Contact us to explore how Charge Qube can meet your energy and charging needs. chargeqube@cybrand.co.uk

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# ENERGY STORAGE

# VARIANTS (CQ3-323-0-150) - (CQ3-323-0-300) and (CQ3-323-0-450)

### Overview

The CQ3-323-0-150 configurations of Charge Qube are designed to deliver scalable, modular energy storage solutions for a variety of applications and Energy Arbitrage, storing energy during low-cost periods and supplying it during high-cost periods.

With a capacity range of 150kWh to 450kWh, this unit provides reliable energy buffering, backup power, and renewable energy storage for commercial, industrial, and off-grid use cases.

# **Key Features:**

- Energy Storage: Stores 150kWh to 450kWh of energy per unit, fully daisy-chainable.
- Grid Integration: Seamlessly connects to the grid for energy storage and supply.
- **Renewable Compatibility:** Accepts direct input from solar panels or wind energy systems.
- Resilience and Backup: Provides immediate backup power during outages.
- **Safety:** Equipped with advanced BMS, fire suppression, and R100.3-certified battery packs.

### Applications

- Energy arbitrage for cost savings.
- Renewable energy storage to maximize utilization.
- Emergency power for critical systems.
- Temporary or remote energy buffering.

#### Specifications

Energy Capacity: 150kWh to 450kWh - Daisy chainable Input Power: 32-amp, 3-phase (or optional 63-amp, 3-phase) Output Power: 63-amp, 3-phase or optional 125-amp, 3-phase. Dimensions: 10-foot sea container. Optional Features: Solar and wind input integration, Starlink connectivity. Weighing from just under 3.5 tonnes, Charge Qube is ideal for both portable and stationary use. It delivers dependable energy storage for businesses, public charging and construction sites, optimizing renewable energy sources like solar and serving as a buffer for fast charging in areas with constrained grid capacity.



Proudly manufactured in Bristol, England, the Charge Qube supports local innovation and craftsmanship. By repurposing second-life containers and EV battery packs sourced from an ever-growing supply in the UK and Europe, the Charge Qube reduces imports and remains cost-competitive with overseas solutions while supporting sustainability and the Made in England initiative.



"Charge Qube offers fast deployment with no planning requirements with inbuilt power electronic units for both AC and DC power outputs.

Charge Qube brings Energy Arbitrage, storing energy during low-cost periods and supplying it during high-cost periods."

# TYPE 2 AC CHARGERS

## VARIANTS

(CQ3-323-12T2-150) - (CQ3-323-12T2-300) - (CQ3-323-12T2-450) and (CQ3-323-12T2-600)

# Overview

The CQ3-323-12T2 configurations (from 150 to 450 kWh) are tailored for fleet operators and businesses requiring efficient overnight charging for multiple electric vehicles. This version integrates up to 12 Type-2 AC chargers, delivering 7kW per vehicle, ensuring seamless and reliable fleet operation.

# **Key Features:**

- Fleet Optimization: Charges up to 12 EVs simultaneously at 7kW per port.
- Integrated Backup: Built-in 22kW charger for fast daytime vehicle top-ups.
- Smart Energy Management: Prioritizes overnight charging and recharges the onboard battery pack in 6.5 hours.
- Scalability: Expandable through daisy-chained units to accommodate larger fleets.
- Secure Operation: Includes optional surveillance cameras and Starlink connectivity.
- Safety: Equipped with advanced BMS, fire suppression, and R100.3-certified battery packs.

### Applications

- Commercial fleet charging depots.
- Temporary or semi-permanent charging infrastructure.
- Off-grid EV charging with renewable energy integration.

#### Specifications

Energy Capacity: 150kWh to 450kWh - Daisy chainable Charging Ports: Up to 12 Type 2 AC (7kW each) + 1 Type 2 AC (22kW backup). Input Power: 32-amp, 3-phase (or optional 63-amp, 3-phase) Output Power: 63-amp, 3-phase or optional 125-amp, 3-phase. Dimensions: 10-foot sea container. Optional Features: Solar and wind input integration, Starlink connectivity.

# CCS FAST CHARGERS

# VARIANTS

(CQ3-323-CCS150-300) and (CQ3-323-CCS150-450)

### Overview

The CQ3-323-2CCS150 configurations deliver high-speed DC charging for businesses and public charging networks. Featuring two 240kW CCS chargers, this model ensures fast, efficient, and reliable EV charging for high-demand applications.

# **Key Features:**

- High-Speed Charging: Dual CCS chargers deliver up to 150kW each for rapid EV charging.
- Energy Management: Efficiently balances energy storage and fast charging demands.
- Prevention: Accepts direct solar input for sustainable operations.
- Robust and Reliable: Equipped with advanced BMS, fire suppression, and R100.3-certified battery packs.
- Flexible Deployment: Ideal for public charging stations, events, and remote locations.
- Safety: Equipped with advanced BMS, fire suppression, and R100.3-certified battery packs.

### Applications

- Public EV Charging infrastructure.
- Public EV Charging Construction temporary charging setups.
- High-speed fleet charging hubs.
- Event and temporary charging setups.
- Construction and heavy machinery infrastructure.
- Emergency and off-grid rapid charging solutions.

#### Specifications

Energy Capacity: 150kWh to 450kWh - Daisy chainable Charging Ports: 2 CCS (240kW each). Input Power: 32-amp, 3-phase (or optional 63-amp, 3-phase) Output Power: 63-amp, 3-phase or optional 125-amp, 3-phase. Dimensions: 10-foot sea container. Optional Peatures: Solar and wind input integration, Starlink connectivity.