

Overview

The ICE CUBE is a 240kW split EV charging system with integrated battery storage of 200kWh, which can be optionally increased to 800kWh, designed to provide flexibility and cost efficiency for charging locations. By enabling off-peak battery storage system charging for later use to charge EVs during peak periods, the system optimizes fleet vehicle availability while providing flexibility and cost efficiencies, including demand charge mitigation, for charging locations.

When charged, the CUBE increases the amount of power that can be drawn to allow more EVs to simultaneously charge at a higher rate.

The ICE CUBE is particularly beneficial for

- simultaneous charging of multiple EVs, for longer periods of time
- locations with high charging utilization or low grid input
- optimizing fleet availability
- reduced total cost of ownership due to lower charging costs

Key Benefits

- Energy storage increases locally available power, may reduce grid load
- Simultaneous charging and discharging of the battery storage system
- Boost mode configuration for higher grid input to the battery
- 150-1000Vdc output supports EV high voltage requirements
- Dispenser and battery storage system can be physically separated by up to 300 feet
- Access control via PIN or RFID card (cards by request)
- Tempered glass touchscreen LCD display for durability and readability
- Compact design for space saving power-to-footprint ratio
- OCPP 1.6 standard supports interoperability
- 4 & 5G LTE modem and LAN for connectivity to InControl
- 480V 3-phase input for high efficiency conversion
- Standard 2-year (24 month) Warranty with every InCharge charger (covers parts; restrictions may apply)
- Customizable warranty and maintenance options - backed by an in-house team of service experts

Configurations*

Product	Configuration	SKUs
ICE CUBE Battery Storage System	ICE-Cube 240kW / 200kWh Battery Capacity	IDCC-240-480-200-1
Dual CCS1 (200A) Cables (19.6 ft)	ICE Dispenser CCS1 (200A) / CCS1 (200A)	IDCD-200-200-C1C1-CR
Dual CCS1 (300A) Cables (19.6 ft)	ICE Dispenser CCS1 (300A) / CCS1 (300A)	IDCD-300-300-C1C1-CR
Dual CCS1 (500A) & CCS1 (200A) Cables (19.6 ft)	ICE Dispenser CCS1 (500A) / CCS1 (200A)	IDCD-500-200-C1C1-CR
Dual CCS1 (500A) & CCS1 (300A) Cables (19.6 ft)	ICE Dispenser CCS1 (500A) / CCS1 (300A)	IDCD-500-300-C1C1-CR
Dual CCS1 (500A) Cables (19.6 ft)	ICE Dispenser CCS1 (500A) / CCS1 (500A)	IDCD-500-500-C1C1-CR
Dual CCS1 (500A) & NACS (200A) Cables	ICE Dispenser CCS1 (500A) / NACS (200A)	IDCD-500-200-C1NA-CR

*Please note, the variants listed are representative and may not be a comprehensive list of available options. Consult with your InCharge Energy sales representative to confirm any and all details.



ICE CUBE Battery Storage System



ICE Charging Dispensers InControl™

Optimize fleet operations and maximize savings with InCharge's proprietary, intuitive and scalable EV fleet charge management software (CMS)

Charger Technical Specifications

- Available with dual connectors: CCS1-CCS1, CCS1-NACS, or CCS1-CHAdeMO | Cable length: 19.6 ft
- Materials and Finish: Enclosure - Hot galvanized steel; Facade - Plastic; Screen - Tempered glass
- DIN70212 and ISO15118-2 protocols supported
- Dispenser Dimensions: (D x W x H) 9.4 in x 19.6 in x 59 in / 240 mm x 500mm x 1500 mm | Weight: 220lbs / 100kg
- Battery Dimensions: (D x W x H) 47.2 in x 39.4 in x 78.4 in / 1200mm x 1000mm x 2200mm | Weight: 793.7lbs / 350kg

Input Parameters	Value
Input Voltage	260-530Vac
AC Input Power Connection	3-phase + N + PE
Frequency	45-65 Hz
Max Input Current	108A (+216A in boost mode)
AC Distribution	AC Grid to Battery 60kW
Output Parameters	Value
Output to EV	240kW, split between 4 connectors
Simultaneous Charging	80kW to charge 4 EVs simultaneously
Battery Parameters	Value
Battery Discharging Channel to EV	Max 4 Channels
EV Charging Voltage	150V-1000V
Access Channel	Max 2 Channel
AC Grid Side	1 AC Energy Meter
DC Charging Side	4 DC Energy Meters
Battery Capacity	215kWh/280Ah
Battery Voltage	627V-864V
Battery Charge / Discharge	0.3C charge / 0.5C discharge
Battery Type	Lithium Iron Phosphate (LFP)
Temperature Regulation	5kW industrial fan
Protections	Smoke, gas, tilt, and pressure sensors
Controls & Interface	Value
HMI	7" TFT LCD Touchscreen
Communication	OCPP 1.6J
Network Connection	4 & 5G LTE modem and LAN
RFID	ISO14443 Type A & S50, S70 MIFARE
Language	English (others available on request)
Environment	Value
Temperature - Operating	-13°F to 122°F/ -25°C to +50°C*
Temperature - Storage	-40°F to 158°F/ -40°C to +70°C
Humidity	95%
Altitude - Operating	6560 ft (2000 m)
General	Value
Certifications	UL 2202 / UL 2231-2 / UL 223-1-1 / CAS C22.2

*Derating characteristics apply at extreme temperatures