InCharge Energy

We Bring the Power

# ICE-132 V2X

132kW Bidirectional DC Fast charger

ver 1.3

## Overview

The ICE-132 V2X is a robust 132kW “Vehicle-to-Everything” bidirectional DC Fast charger that supports Vehicle-to-Grid (V2G), Vehicle-to-Vehicle, and other discharge use cases. This charger may qualify for funding opportunities with V2G-capability requirements.

In combination with InControl™ Charge Management Software, the ICE-132 V2X empowers fleets to harness the stored energy in off-duty V2G compatible vehicles, promoting cost savings, grid stability, and greater renewable energy integration with the grid.


ICE-132 V2X Dual CCS1

## Primary Use Cases

- Buildings designated as emergency shelter locations, where the energy stored in the electric fleet vehicles could be used to power the building in case of an outage
- Fleets in areas with Distributed Energy Resource programs or funding opportunities with V2G requirements
- Various fleets where sequential or simultaneous charging optimizes operations

## Key Benefits

- Compatible with most industry-standard connector types, including NACS
- Sequential or simultaneous (split power) charging
- Simultaneous and independent charging and discharging
- Compact footprint for space saving power-to-footprint ratio
- Access control via PIN or RFID card (cards by request)
- Credit card reader & payment by mobile app (by request)

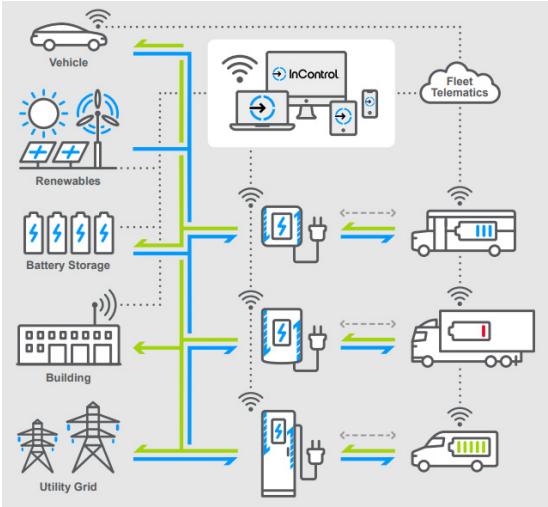
Managed by

InControl™

Charge Management Software (CMS)

- User-friendly, integrates with existing systems
- Maximize fleet productivity
- Minimize charging-related energy costs
- Mitigate demand charges with load management

## The InCharge V2X Solution




## Warranty & Maintenance Options

... backed by an in-house team of service experts

- Standard 3-year (36 month) Warranty included with every InCharge charger (covers parts; restrictions may apply)
- Customizable options to cover parts, labor, uptime SLAs, & more

## Charger Technical Specifications

# ICE-132 V2X

132kW Bidirectional DC Fast charger

| Configuration | Value |
|---|---|
| Voltage | 277/480 Vac +/- 10% |
| AC Input Power Connection | 3 Phase: L1, L2, L3, N, GND |
| Frequency | 60Hz |
| Recommended Breaker | 225A |
| Max Current Draw | 168A |
| Power Factor | ≥0.99 @Grid Charging; 0.8 Leading~0.8 Lagging @Grid Discharging |
| THD (Total Harmonic Distortion) | <5% |
| **AC to DC (On Grid Charging)** | **Value** |
| DC Output: Rated Power | 132kW |
| DC Output: Voltage | 300~1000Vdc (CCS1/NACS) Discharging or Off Grid Discharging<br>300~500Vdc (CHAdeMO) Discharging or Off Grid Discharging |
| **DC to AC (On/Off Grid Discharging)** | **Value** |
| DC Input: Voltage & Output Power | 132kW (330V~1000V) @Charging; 132kW (330V~1000V) @Discharging |
| DC Input: Max Current | 300A |
| AC Output: Voltage & Output Power | 480Vac +/- 10%: 132kW |
| AC Output: Rated Power & Current | 146.6kVA / 168A |
| Islanding Voltage Accuracy | 1% & <3% |
| Power Factor | >0.8 |
| Dynamic Voltage Stability & Recovery | 5% and 20mS |
| **Controls & Interface** | **Value** |
| HMI | 7in TFT LCD Display |
| Communication | OCPP 1.6J, OCPP 2.0.1, OCPP 2.1 |
| Network Connection | 4G and 5G Cellular, LAN 10Mbit/100Mbps |
| RFID | ISO14443 Type A & S50, S70 MIFARE |
| **Environment** | **Value** |
| Temperature - Operating | -22°F to 122°F / -30°C to 50°C* |
| Temperature - Storage | -40°F to 150°F / -40°C to 70°C |
| Humidity | 95% |
| Altitude - Operating | 6560ft (2000m) |
| Protection - Intrusion | IP55/NEMA 3S, IK10 |
| **Cables & Connectors** | **Value** |
| Connector Types | CCS1, NACS, CHAdeMO |
| Connector Technology | Segmented |
| Cable Length | CCS1: 16.4ft (25ft available upon request) |
| **General** | **Value** |
| Materials & Finish | Enclosure - Hot galvanized steel; Facade - Plastic; Screen - Tempered glass |
| Supported Protocols | DIN70121 and SAE J284702, ISO15118-02 ready, ISO 15118-20 ready |
| Dimensions | (D x W x H) 29.5in x 27.5in x 68.9in / 750mm x 700mm x 1750mm |
| Weight | 451.95lbs / 205 kg (excluding power module); power module: 30.86lbs / 14kg (x6) |
| Certifications | UL 2202, CSA 22.2, UL 1741 SA/SB, UL 9741, IEEE 1547, J2847/2, IEC 61851-23:2014, IEC 61000-6-3:2020 |

*Derating characteristics apply at extreme temperatures

## Charger Configurations*

# ICE-132 V2X

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| Product Code | Product Configuration |
|---|---|
| I132-C1C1-R | ICE-132 V2X CCS1 (200A, 16ft) / CCS1 (200A, 16ft) |
| I132-C1LC1L-R | ICE-132 V2X CCS1 Long (200A, 25ft) / CCS1 Long (200A, 25ft) |

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