ABB A400

400kW DC Fast charger

ver 1.3

Overview

We Bring the Power

The ABB A400 is a powerful 400kW DC Fast charger engineered to deliver efficient and reliable charging for electric vehicle fleets. It offers sequential and simultaneous (split power) charging with dynamic power sharing in 50kW increments, enhancing operational flexibility. This charger is available as Buy America Phase Two and NEVI compliant, accommodating many funding opportunity requirements. The ABB A400 combines powerful performance with a compact design for easy installation in constrained spaces.

Primary Use Cases

- Auto dealerships, for charging available inventory
- A variety of fleet parking applications where DC charging is needed in minimal space

Key Benefits

- Available as Buy America Phase Two compliant
- Available as NEVI compliant
- Dynamic power sharing in 50kW increments
- Sequential and simultaneous (split power) charging
- Integrated cable management
- Fast charging in a compact, space-saving footprint
- Access control via PIN or RFID (cards by request)
- Credit card reader or payment by mobile app (by request)



ABB A400 Dual CCS1 with Credit Card Reader







Managed by



Charge Management Software (CMS)

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



Warranty & Maintenance Options

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

- Standard 2-year (24 month) Warranty included with every InCharge charger (covers parts; restrictions may apply)
- Customizable options to cover parts, labor, uptime SLAs, & more

Charger Technical Specifications

ABB A400

400kW DC Fast charger

| Voltage | Configuration | Value |
|--|---------------------------------|---|
| Frequency | Voltage | 480 Vac, WYE |
| Recommended Breaker 650A | AC Input Power Connection | 3 Phase: L1, L2, L3, GND |
| SCCR 65kA Max Current Draw 510A Power Factor >0.99 THD (Total Harmonic Distortion) <3% Output Parameters Value Voltage 150-980V Current - Max 2x600A Power - Max 400kW System Efficiency - Max Up to 97% Controls & Interface Value HMI 32ln Full color LCD (interface: 4 push buttons) Communication OCPP 1.6J / OCPP 2.0.1 Network Connection Dual Sim, GSM/36/46/56, 10/100 Base-T Ethernet RFID Mifare ISO 14443 A/B to part 4 and ISO15693, ISO18092/ECMA-340 (NFC). Others available on request (Calypso, Ultralight, PayPass, HID, and more) Language English, French, Spanish, German, Italian, Norwegian, Dutch (others via software upgrade) Environment Value Temperature - Operating -22°F to 131°F / -30°C to 55°C* Temperature - Storage 23°F to 104°F / -5°C to 40°C Hurnidity Up to 95%, non-condensing Altitude - Operating 6562 ft (2000 m) Protection - Intrusion IP54, NEMA 3R; indoor and outdoor rated Cable & Connector | Frequency | 60Hz |
| Max Current Draw 510A Power Factor >0.99 THD (Total Harmonic Distortion) <3% | Recommended Breaker | 650A |
| Power Factor | SCCR | 65kA |
| THD (Total Harmonic Distortion) | Max Current Draw | 510A |
| Output Parameters Value Voltage 150-980V Current - Max 2x600A Power - Max 400kW System Efficiency - Max Up to 97% Controls & Interface Value HMI 32in Full color LCD (Interface: 4 push buttons) Communication OCPP 1.6J / OCPP 2.0.1 Network Connection Dual Sim, GSM/3G/4G/5G, 10/100 Base-T Ethernet RFID Mifare ISO 14443 A/B to part 4 and ISO15693, ISO18092/ECMA-340 (NFC). Others available on request (Calypso, Ultralight, PayPass, HID, and more) Language English, French, Spanish, German, Italian, Norwegian, Dutch (others via software upgrade) Environment Value Temperature - Operating -22°F to 131°F / -30°C to 55°C* Temperature - Storage 23°F to 104°F / -5°C to 40°C Humidity Up to 95%, non-condensing Altitude - Operating 6562 ft (2000 m) Protection - Intrusion IP54, NEMA 3R; indoor and outdoor rated Cables & Connectors Value Connector Types Patented two-phase cooling technology (CCS1, CCS2), Air-cooled J3400 (NACS) Cable Length Length: 15.7ft (4.8m); Reach: 20.7ft (6.3m) | Power Factor | >0.99 |
| Voltage 150-980V Current - Max 2x600A Power - Max 400kW System Efficiency - Max Up to 97% Controls & Interface Value HMI 32in Full color LCD (Interface: 4 push buttons) Communication OCPP 1.6J / OCPP 2.0.1 Network Connection Dual Sim, GSM/3G/4G/5G, 10/100 Base-T Ethernet RFID Mifare ISO 14443 A/B to part 4 and ISO15693, ISO18092/ECMA-340 (NFC). Others available on request (Calypso, Ultralight, PayPass, HID, and more) Language English, French, Spanish, German, Italian, Norwegian, Dutch (others via software upgrade) Environment Value Temperature - Operating -22°F to 131°F / -30°C to 55°C* Temperature - Storage 23°F to 104°F / -5°C to 40°C Humidity Up to 95%, non-condensing Altitude - Operating 6562 ft (2000 m) Protection - Intrusion IP64, NEMA 3R; indoor and outdoor rated Cables & Connectors Value Connector Types Patented two-phase cooling technology (CCS1, CCS2), Air-cooled J3400 (NACS) Cable Length Length: 15.7ft (4.8m); Reach: 20.7ft (6.3m) General Value | THD (Total Harmonic Distortion) | <3% |
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| Power - Max | Voltage | 150-980V |
| System Efficiency - Max Up to 97% Controls & Interface Value HMI 32in Full color LCD (Interface: 4 push buttons) Communication OCPP 1.6J / OCPP 2.0.1 Network Connection Dual Sim, GSM/3G/4G/5G, 10/100 Base-T Ethernet RFID Mifare ISO 14443 A/B to part 4 and ISO15693, ISO18092/ECMA-340 (NFC). Others available on request (Calypso, Ultralight, PayPass, HID, and more) Language English, French, Spanish, German, Italian, Norwegian, Dutch (others via software upgrade) Environment Value Temperature - Operating -22°F to 131°F / -30°C to 55°C* Temperature - Storage 23°F to 104°F / -5°C to 40°C Humidity Up to 95%, non-condensing Altitude - Operating 6562 ft (2000 m) Protection - Intrusion IP54, NEMA 3R; indoor and outdoor rated Cables & Connectors Value Connector Types Patented two-phase cooling technology (CCS1, CCS2), Air-cooled J3400 (NACS) Cable Length Length: 15.7ft (4.8m); Reach: 11.4ft (3.5m) Length: 22.9ft (7m); Reach: 20.7ft (6.3m) General Value Materials & Finish Combination OD steel and aluminum Supported Protocols | Current - Max | 2x600A |
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| Dimensions (D x W x H) 31.1in x 31.9in x 88.8in / 790mm x 810mm x 2256mm Weight 1610lbs / 730kg | Materials & Finish | Combination OD steel and aluminum |
| Weight 1610lbs / 730kg | Supported Protocols | DIN SPEC 70121, ISO 15118-2, ISO 15118-20, ISO 15118-3, Auto charge, Plug and Charge |
| | Dimensions | (D x W x H) 31.1in x 31.9in x 88.8in / 790mm x 810mm x 2256mm |
| Certifications UL2202, UL2231-1, UL2231-2, CSA 22.2 No.346:22 | Weight | 1610lbs / 730kg |
| | Certifications | UL2202, UL2231-1, UL2231-2, CSA 22.2 No.346:22 |

^{*}Derating characteristics apply at extreme temperatures

Charger Configurations*

ABB A400

400kW DC Fast charger

| Product Code | Product Configuration |
|--------------|--|
| A400-C1C1-R | A400 CCS1 (400A, 15ft) / CCS1 (400A, 15ft) |

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