



IQ 40 EV Charger with J1772 connector

The IQ 40 EV Charger with J1772 connector is a rugged, intelligent, and reliable Level 2 EV charger that combines safety and intelligence to provide seamless 7.7 kW EV charging capabilities for residential and commercial establishments.

It integrates flawlessly with the Enphase Energy System, and installation is simple with the Enphase Installer Network.

The tough NEMA 4-rated weatherproof enclosure and 25-foot charging cable allow for flexible indoor or outdoor installation. The rugged design of the charging cables helps the charger resist everyday wear and tear. The charger also comes with an industry-leading 5-year limited warranty.



Rugged

- Fully sealed NEMA 4 enclosure allows for indoor/outdoor installation
- Includes a wall-mounted connector holster and 25-foot cable with an impact and crush resistant J1772 connector

Intelligent

- Maximize savings by using the combination of solar, battery power, and off-peak schedules to charge your EV
- Customized settings support different energy goals: Savings, self-consumption, and full backup
- Charge EV on clean energy from the sun by using excess solar power with an Enphase Energy System
- Storm Guard protects against inclement weather by keeping EV and home battery fully charged
- Monitor and fully control EV charging using the Enphase App

Reliable

- Comprehensive safety, efficiency compliance, including ENERGY STAR® and ETL
- Industry leading 5-year warranty
- Backed by an outstanding customer service experience with Enphase
- Extensively tested for use with majority of all J1772-compatible EVs



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| PRODUCT SKUs | | | |
|-------------------------------------|--|----------------------------|-----------------------------|
| SKU number | IQ-EVSE-NA-1040-0100-0100 | IQ-EVSE-NA-1040-0120-0100 | IQ-EVSE-NA-1040-0110-0100 |
| ELECTRICAL SPECIFICATIONS | | | |
| Input voltage/Input voltage range | 208/240 VAC (L-L), single-phase/185 VAC–264 VAC | | |
| Input voltage frequency | 50/60 Hz | | |
| Circuit breaker requirement | Dedicated, 2-pole 40 A | | |
| Input cable type | Pre-wired with: (L1, L2, Gnd) 10 AWG service whip | Pre-wired with: NEMA 6-50P | Pre-wired with: NEMA 14-50P |
| Input cable length | 3' (914.4 mm) | 12" (304.8 mm) | 12" (304.8 mm) |
| Maximum output current/Output power | 32 A continuous/7.7 kW | | |
| Output cable/Cable length | Pre-wired with SAE J1772/25' (7.62 m) | | |
| MECHANICAL DATA | | | |
| Enclosure dimensions (L × W × D) | 19.7" × 8.9" × 5.3" (500 mm × 226 mm × 135 mm) | | |
| Weight | 14.5 lb (6.6 kg) | | |
| Enclosure mounting | Wall or pedestal mounted (pedestal sold separately) | | |
| ENVIRONMENTAL SPECIFICATIONS | | | |
| Environment/Enclosure rating | Indoor and outdoor rated/NEMA Type 4 - watertight | | |
| Operating/Storage temperature | -22°F to 122°F (-30°C to 50°C)/-40°F to 176°F (-40°C to 80°C) | | |
| COMPLIANCE SPECIFICATIONS | | | |
| Codes and standards | NEC Article 625, SAE J1772, ENERGY STAR®, UL | | |
| Safety compliance | UL 2594, UL 2251, UL 2231-1, UL 2231-2, UL 1998, UL 991 C22.2 No. 280-13, CSA C22.2 No. 282, CSA C22.2 No. 281.1, CSA C22.2 No. 281.2, CSA C22.2 No. 0.8 NOM-001-SCFI-2018 | | |
| EMC compliance | FCC Part 15 Class B, NOM-208-SCFI-2016 | | |
| Short-circuit protection | 5000 RMS Symmetrical Amps at 240 VAC | | |
| Open safety ground detection | Features a continuous earth ground monitor to ensure consistent connection to good earth ground | | |
| Ground fault detection | Ground fault protection integral, CCID 20 mA, auto reset | | |
| Auto-reclosure | System will automatically resume standard operation after a minor power fault has cleared | | |
| FEATURES | | | |
| Four LED indicators | Amber LED: Power, Green LED: Charging, 1 st red LED: Power fault, 2 nd red LED: Charging fault | | |
| Smart scheduling | Take advantage of time-of-use energy savings from your utility | | |
| Self-consumption | Charge EV on clean energy from the sun by using excess solar power with an Enphase Energy System | | |
| Main panel upgrade avoidance | EVSE dynamic power management ¹ with PCS-LC and UL 3141 certified | | |
| Storm Guard | Ensure the EV is fully charged and ready when there is a storm alert in the area | | |
| Remote start/stop | Use the Enphase App to remotely control your EV charger with start and stop functions | | |
| Connectivity | Wi-Fi 2.4 GHz and Bluetooth | | |
| Integration support | OCPP 1.6 and Enphase APIs | | |
| Limited warranty | 5-year | | |

¹The dynamic power management feature is supported only for Enphase Energy Systems with IQ Gateway.

Revision history

| REVISION | DATE | DESCRIPTION |
|---------------|-------------|-------------------------------------|
| DSH-00112-3.0 | August 2024 | Updated the introduction and title. |
| DSH-00112-2.0 | June 2024 | Updated the "Features" section. |
| DSH-00112-1.0 | June 2023 | Initial release. |