IQ 80 EV Charger with J1772 connector

The IQ 80 EV Charger with J1772 connector is a rugged, intelligent, and reliable Level 2 EV charger that combines safety and intelligence to provide seamless 15.4 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

IQ 80 EV Charger with J1772 connector

PRODUCT SKUs	
SKU number	IQ-EVSE-NA-1080-0100-0100

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 80 A
Input cable type	Pre-wired with: (L1, L2, Gnd) 8 AWG service whip
Input cable length	3' (914.4 mm)
Maximum output current/Output power	64 A continuous/15.4 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	19.0 lb (8.6 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
EMC compliance	FCC Part 15 Class B
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, 1st red LED: Power fault, 2nd 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

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

Revision history

REVISION	DATE	DESCRIPTION
DSH-00115-3.0	August 2024	Updated the introduction and title.
DSH-00115-2.0	June 2024	Updated the "Features" section.
DSH-00115-1.0	June 2023	Initial release.