IQ 50 EV Charger

The IQ 50 EV Charger is a rugged, intelligent, and reliable Level 2 EV charger that combines safety and intelligence to provide seamless 9.6 kW EV charging capabilities for residential and commercial establishments.

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

The tough NEMA 4-rated weatherproof enclosure and 25-foot charging cable allows for flexible indoor or outdoor installation. 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 50 EV Charger

PRODUCT SKUs			
SKU number	IQ-EVSE-NA-1050-0100-0100	IQ-EVSE-NA-1050-0120-0100	IQ-EVSE-NA-1050-0110-0100
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 50 A		
Input cable type	Pre-wired with: (L1, L2, Gnd) 8 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	40 A continuous/9.6 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 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		
Storm guard	Ensure EV is fully charged and ready when there is a storm alert in the area		
Remote start/stop	Use the app to remotely control your EV charger with start and stop functions		
Connectivity	Wi-Fi 2.4 GHz and Bluetooth		
Limited warranty	5-year		

Revision history

REVISION	DATE	DESCRIPTION
DSH-00113-1.0	July 2023	Initial release