



IQ 50 EV Charger with NACS connector

The IQ 50 EV Charger with the NACS connector is a rugged, intelligent, and reliable EV charger that combines safety and intelligence to provide seamless 9.6 kW EV charging capabilities for residential and commercial establishments. This charger works seamlessly with all EVs equipped with NACS charge ports, including Tesla model EVs. Your EV charge port door can be opened by clicking the button on the connector handle when in proximity to each other.

It integrates flawlessly with an 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 or outdoor installation
- Includes a wall-mounted connector holster and 25-foot cable with an impact and crush-resistant NACS 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 and efficiency compliance, including ENERGY STAR® and ETL
- Industry-leading 5-year warranty
- Backed by an outstanding customer service experience with Enphase
- Extensively tested for seamless use with all NACS-compatible EVs

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PRODUCT SKUs	
SKU number	IQ-EVSE-NA-1050-0101-0100
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
Input cable length	3' (914.4 mm)
Maximum output current/Output power	40 A continuous/9.6 kW
Output cable/Cable length	Pre-wired with NACS connector/25' (7.62 m)
MECHANICAL DATA	
Enclosure dimensions (L x W x D)	19.7" x 8.9" x 5.3" (500 mm x 226 mm x 135 mm)
Weight	13.4 lb (6.1 kg)
Enclosure mounting	Wall or pedestal mounted (pedestal sold separately)
ENVIRONMENTAL SPECIFICATIONS	
Environment rating	Indoor and outdoor
Enclosure rating	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, NACS, 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, 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 EVs 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 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.

NOTE: For EVs with J1772 charge ports, use a NACS to J1772 adapter.

Revision history

REVISION	DATE	DESCRIPTION
DSH-00486-4.0	September 2024	Updated the introduction and "Compliance specifications" sections.
DSH-00486-3.0	August 2024	Updated the introduction.
DSH-00486-2.0	June 2024	Updated the "Features" section.
DSH-00486-1.0	May 2024	Initial release.