





IQ 50 EV Charger with J1772 connector

The IQ 50 EV Charger with J1772 connector 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 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.







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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 with J1772 connector

SKU nodeNG-EVSE-NA-0680-0100-0100NG-EVSE-NA-0680-0120-0100CU-EVSE-NA-0680-0120-0100SUB/240 V/C (L-1, sigle-phase/18 V-SU-SU-SU-SU-SU-SU-SU-SU-SU-SU-SU-SU-SU-	PRODUCT SKUs			
Input voltage /nput voltage rangeCUEV-UV-KC (L-1), single-phase/185 VAC-28-UInput voltage frequency6Oricult breaker requirementPer-wired with: NEMA 6-50PPre-wired with: (L1, L2, Cn/l) 84W0 service with SAL 2-pole 50APre-wired with: NEMA 6-50PInput cable length3 (914.4 mm)B* CGA 6.8 mm)Cotput cable/ cable ongth3 (914.4 mm)B* CGA 6.8 mm)Cotput cable/ cable ongth0CT (SO 4.8 mm)Maximu output current/Output powe0	SKU number	IQ-EVSE-NA-1050-0100-0100	IQ-EVSE-NA-1050-0120-0100	IQ-EVSE-NA-1050-0110-0100
Input volkage frequency SO/K0 Hz Circuit breaker requirement Per-wired with: LELA Graft BAWQ Per-wired with: NEMA 8-50P Per-wired with: NEMA 8-50P input cable length 3 ('914.4 mm) L2' (S04.8 mm) Iz' (S04.8 mm) Maximum output currier//Output power	ELECTRICAL SPECIFICATIONS			
Circuit Dreaker requirement Implicable Type Per-wired with: (LL2, Gn/B & MVO service whip Pre-wired with: NEMA 6-50P Pre-wired with: NEMA 14-50P Input cable length 3' (GL4, mm) 'L' (SO4, 8 mm) 'L' (SO4, 8 mm) Maximum output current/Output power 40 A continuous/9.8 kW 'L' (SO4, 8 mm) Output cable/ Cable length 9''''''''''''''''''''''''''''''''''''	Input voltage/Input voltage range	208/240 VAC (L-L), single-phase/185 VAC-264 VAC		
Input cable typePre-wird with: LLL2. Gn/B AWG service whipPre-wired with: NEMA 6-50PPre-wired with: NEMA 6-50PInput cable length3' (514.4 mm)'2' (30.4 mm)'2' (30.4 mm)Marinum output current/Output powe	Input voltage frequency	50/60 Hz		
Input cable length 3 (904.4 mm) Per-wire with relate PS-OP Per-wire With relate AP-OP Maximum output current/Output powe	Circuit breaker requirement	Dedicated, 2-pole 50 A		
Advinue output current/Output power40 A continuous/9.6 kWOutput cable/Cable lengthPre-wired with SAE JIT72/25 (7.62 m)MEERANLCA LATAEnclosure odimensions (1 - W - D)19.7° + 8.9° + 5.3° (600 nm - 226 nm - 135 nm)WeightGull or pedestal mounted (pedestal sold separately)Enclosure nountingWall or pedestal mounted (pedestal sold separately)Enclosure nountingIndoor and outdoor rated /NEMA Type 4 - waterlightOperating/Storage temperature-22°F to 122°F (-30°C to 50°C)/-40°F to 176°F (-40°C to 80°C)Environment/Enclosure ratingIndoor and outdoor rated /NEMA Type 4 - waterlightOperating/Storage temperatureUL2594, UL2595, UL 2371-, UL 2371-QL 1998, UL991Caster and standardsC22.2 No.280-13, CSA C22.2 No.281, CSA C22.2 N	Input cable type		Pre-wired with: NEMA 6-50P	Pre-wired with: NEMA 14-50P
Output cable/Cable length Pre-wired with SAE JJ772/25 (7.62 m) NECKANICAL DATA Image: Cable C	Input cable length	3' (914.4 mm)	12" (304.8 mm)	12" (304.8 mm)
MEDIANUCAL 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) 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) Codes and standards NEC Article 625, SAE J1772, ENERGY STAR [®] , UL Codes and standards UL 2594, UL 2251, UL 2231-1, UL 2231-2, UL 1998, UL 991 Safety compliance C22.2 No. 280-13, CSA C22.2 No. 281, CSA C22.2 No. 281, CSA C22.2 No. 0.8 NOM-00F-SCFI-2018 EMC compliance FCC Part 15 Class B, NOM-208-SCFI-2016 Short-circuit protection Goound fault protection and outdoor fault protection and outdoor fault protection and outdoor fault protection and to good earth ground Forcut ED Indicators Amber LED: Power, Green LED: Charging, 1" red LED: Power fault, 2." red LED: Charging fault Safet-consumption Charge EV on clean energy from the sun by using access along power with an Enphase Energy System Main panel upgrade avoidance EVSE dynamic power management "with PC-1C and US 141 certified Storne Guard Ensure the EV is dily charged and reday when there is a storm alert in the area Re	Maximum output current/Output power	40 A continuous/9.6 kW		
Enclosure dimensions (L + W + D) 19.7" + 8.9" + 5.3" (500 mm + 226 mm + 135 mm) Weight 4.000000000000000000000000000000000000	Output cable/Cable length	Pre-wired with SAE J1772/25' (7.62 m)		
Weight4.5 Is 6.6 kg)Enclosure mounting0Enclosure mounting0ENVIRAMENTAL SPECIFICATIONSEnvironment/Enclosure rating0Operating/Storage temperature2-22°F to 122°F (-30°C to 50°C)/-40°F to 176°F (-40°C to 80°C)ENVELIANCE SPECIFICATIONSCodes and standards0Codes and standards0Additional Codes (Codes Codes Codes Codes Codes Codes Codes Codes (Codes Codes Codes Codes Codes Codes Codes Codes (Codes Codes (Codes Codes Co	MECHANICAL DATA			
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Environment/Enclosure rating Indoor and outdoor rated/NEMA Type 4 - waterlight Operating/Storage temperature -22°F to 122°F (-30°C to 50°C)/-40°F to 176°F (-40°C to 80°C) Codes and standards Integrating (Storage temperature) Codes and standards Integrating (Storage temperature) Codes and standards Integrating (Storage temperature) Safety compliance Integrating (Storage temperature) Safety compliance C22.2 No. 280-13, CSA C22.2 No. 281, IC SA C22	Enclosure mounting	Wall or pedestal mounted (pedestal sold separately)		
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Safety complianceC22.2 No.280-13, CSA C22.2 No.281, CSA C22.2 No.281, CSA C22.2 No.281, CSA C22.2 No.081, CSA C22.2 No.281, CSA C22	Codes and standards	NEC Article 625, SAE J1772, ENERGY STAR [®] , UL		
NOM-001-SCFI-2018EMC complianceFCC Part 15 Class B, NOM-208-SCFI-2016Short-circuit protectionGODO RMS Symmetrical Amps at 240 VACOpen safety ground detectionFeatures a continuous earth ground monitor to ensure consistent connection to good earth groundGround fault detectionGround fault protection integral, CCID 20 mA, auto resetAuto-reclosureSystem will automatically resume standard operation after a minor power fault has clearedFeaturesTotal Class G, Mander LED: Power, Green LED: Charging, 1t ^{an} red LED: Power fault, 2t ^{an} red LED: Charging faultShart schedulingGotard EVSE dynamic power management' with PCS-LC and UL 3141 certifiedStorn GuardErsure the EV is fully charged and ready when there is a storm alert in the areaRemote start/stopUse the Enphase App to remotely control your EV charger with start and stop functionsConnectivityMin Fi 2.4 GHz and BluetoothHornorulOCPP 1.6 and Enphase APIs				
EMC compliance FCC Part 15 Class B, NOM-208-SCFI-2016 Short-circuit protection Good 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 FATURES Four LED indicators Four LED indicators Amber LED: Power, Green LED: Charging, 1 st red LED: Power fault, 2 rd red LED: Charging fault 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' with PCS-LC and UL 3141 certified Storm Guard Insure 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 GOCPP1.6 and Enphase APIs	Safety compliance			
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Smart schedulingTake advantage of time-of-use energy savings from your utilitySelf-consumptionCharge EV on clean energy from the sun by using excess solar power with an Enphase Energy SystemMain panel upgrade avoidanceEVSE dynamic power management' with PCS-LC and UL 3141 certifiedStorm GuardEnsure the EV is fully charged and ready when there is a storm alert in the areaRemote start/stopUse the Enphase App to remotely control your EV charger with start and stop functionsConnectivityWi-Fi 2.4 GHz and BluetoothIntegration supportOCPP 1.6 and Enphase APIs	FEATURES			
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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	Main panel upgrade avoidance	EVSE dynamic power management ¹ with PCS-LC and UL 3141 certified		
Connectivity Wi-Fi 2.4 GHz and Bluetooth Integration support OCPP 1.6 and Enphase APIs	Storm Guard	Ensure the EV is fully charged and ready when there is a storm alert in the area		
Integration support OCPP 1.6 and Enphase APIs	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		
Limited warranty 5-year	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-00113-3.0	August 2024	Updated the introduction and title.
DSH-00113-2.0	June 2024	Updated the "Features" section.
DSH-00113-1.0	June 2023	Initial release.