

IQ EV Charger 2

The IQ EV Charger 2 delivers reliable, intelligent charging for both homes and businesses. It works as a standalone unit or as part of the Enphase Energy System, featuring real-time green charging, time-of-use scheduling, remote start/stop, access control, smart charging and AI optimisation to achieve cost savings, all managed through the Enphase App. Suitable for all Type-2 EVs, it comes with Wi-Fi, Ethernet, and cellular connectivity.



Key specifications	IQ-EVSE-NC-3032-0005-1300	IQ-EVSE-EU-3032-0105-1300
Nominal voltage (±15%)	400 V/3 × 230 V (three-phase) 230 V (single-phase)	
Rated output current	32 A per phase	
Socket or connector	Type-2 shuttered socket/7.5 m Type-2 connector cable	
Enclosure rating	IP55/IK10	
Communication	2.4/5 GHz Wi-Fi (802.11ax), Bluetooth, Ethernet, CAN	2.4/5 GHz Wi-Fi (802.11ax), Bluetooth, Ethernet, CAN, and cellular 4G LTE
Operating temperature	-40°C to 55°C	
Warranty	5 years	



Smartly integrated

- **Dynamic load balancing:** Adjusts charging to home usage, avoiding overloads and costly upgrades.
- **Phase switching:** Automatically switches from 3 to 1 phase and vice versa to use solar efficiently, even from 1.4 kW.
- **Built-in Class B-certified MID meter:** ±1% accuracy for tracking and reimbursements.
- **Smart charging:** Optimizes for cost while meeting charging goals using real-time utility rates from Nord Pool.
- **Advanced access control:** RFID and app-based authentication prevent unauthorised use.

Reliable

- **Durable design:** IP55-rated for safe indoor/outdoor use.
- **No derating:** Performs reliably under direct sunlight.
- **5-year warranty:** Backed by Enphase for peace of mind.

User-friendly

- **Flexible configuration:** Set charging current from 6 A to 32 A; limit to 11 kW if needed.
- **Easy installation:** No additional mounting brackets.
- **Quick setup:** Install in 10 minutes and commission under 3 minutes via Enphase Installer App.

Electrical specifications	IQ-EVSE-NC-3032-0005-1300		IQ-EVSE-EU-3032-0105-1300	
Model name	IQ EV Charger 2 (socketed, three-phase/single-phase)		IQ EV Charger 2 (tethered, three-phase/single-phase)	
Nominal voltage (±15%)	400 V 3 × 230 V	230 V	400 V 3 × 230 V	230 V
Nominal frequency	50 Hz			
Maximum charging power (configurable ¹)	Up to 22 kW (three-phase Wye) Up to 12.7 kW (three-phase Delta)	Up to 7.4 kW (single-phase)	Up to 22 kW (three-phase Wye) Up to 12.7 kW (three-phase Delta)	Up to 7.4 kW (single-phase)
Earthing arrangement	TN, TT, or IT			
Rated output current	32 A per phase			
Provided cable gland size	M32 gland (15–25.4 mm)	M25 gland (11–17.9 mm)	M32 gland (15–25.4 mm)	M25 gland (11–17.9 mm)
Socket or connector	Type-2 shuttered socket		7.5 m Type-2 connector cable	
Charging equipment components				
7.5 m Type-2 charging cable	Sold separately		Included	
Cable and connector holster	Sold separately		Included	
Mechanical specifications				
Enclosure dimensions (L × W × D)	410 mm × 250 mm × 128 mm		370 mm × 250 mm × 118 mm	
Weight	6 kg		11 kg (including the tethered charging cable)	
Enclosure rating	IP55/IK10			
Supply cable entry options	Bottom or rear entry			
Environmental specifications				
Relative humidity range	5–95% (condensing)			
Altitude	Up to 2500 m			
Operating temperature	–40°C to 55°C			
Storage temperature	–40°C to 80°C			
Communication options				
Wireless network	2.4/5 GHz Wi-Fi (802.11ax)			
Bluetooth	BT/BLE 5.3			
Cellular	—		4G LTE	
Wired communication	Ethernet, CAN			
Meters supported	Linky (TIC protocol), P1 (DSMR 4.x and 5.0), and HAN			
ISO 15118	Yes (hardware and software support)			
Features				
LED indicator	Animated line LED with RGB colours to indicate the state of the EV charger			
MID meter display	Display voltage, current, and energy (kWh) consumption of the EV charger			

¹ For example, to limit the maximum charging power for a three-phase charger to 11 kW, configure the maximum charging current to 16 A at the time of commissioning.

Features	
Smart scheduling	Optimises charging with dynamic tariff rates and excess solar power
Self-consumption ²	Charge EV on clean energy from the sun by using excess solar power with an Enphase Energy System
Smart charging	Automatically optimises EV charging based on departure time and driving range for lower costs and cleaner energy
Automatic phase-switching ³	Automatically switches between three-phase and single-phase to optimise charging from excess PV
Authentication	Available via the Enphase App RFID/NFC (ISO 14443 A/B or ISO 15693, 13.56 MHz)
Integration support	OCPP 1.6J, OCPP 2.0.1 API—Cloud, local MODBUS TCP
Safety and compliance	
Compliance	CE (LVD EU/2014/35, EMC Directive EU/2014/30, RED EU/2014/53, RoHS 3.0, REACH, IEC/EN 61851-1, IEC/EN 61851-21-2, IEC/EN 62196-1, IEC/EN 62955 (RDC-DD), IEC 61439-7, IEC/EN 60364-4-41), MID (EN 50470-1, EN 50470-3), RED DA (EN 18031), and EV Ready
Safety features	Overvoltage protection (265 V), RDC-DD (± 6 mA), relay weld detection, overcurrent detection (+20%)
Built-in sensors	Ambient light sensor, temperature sensor, humidity sensor, and tilt sensor
Metering accuracy	$\pm 1\%$ (Class B, MID-certified)
Insulation category	Class 1 ⁴
Warranty	
Warranty duration	5 years

² Currently supported for a single IQ EV Charger 2.

³ Applicable for three-phase SKUs only.

⁴ The EV charger has been qualified for the insulation resistance test as per IEC 60068-2-78 with 500 VDC. But due to the presence of the overvoltage protection component, the insulation testing shall be performed on the finished product only at 250 VDC.

Revision history

Revision	Date	Description
DSH-00898-4.0	July 2026	- Added information about the "Smart charging" feature. - Editorial updates.
DSH-00898-3.0	November 2025	Editorial updates.
DSH-00898-2.0	October 2025	Initial release.
DSH-00898-1.0	October 2025	Preliminary release.