

IQ EV Charger 2

The IQ EV Charger 2 combines advanced hardware with AI-powered energy management to bring seamless, reliable EV charging to every home. Compatible with all Type-2 EVs and safety features like an integrated RDC-DD, allowing homeowners to charge with peace of mind. Whether used as a standalone unit or integrated with Enphase Energy Systems, this IP55-rated charger is both versatile and durable, offering easy installation and maintenance.

Save more with AI-driven home energy management, optimising for the lowest utility rates and efficient solar charging. Up to 100% of excess solar power can be directed to EV charging, maximising savings. Designed for all European grids, the charger offers both wired and wireless connectivity for flexible installation. It also includes a built-in MID meter for accurate energy usage tracking and a Type-2 connector, suitable for all EVs in Europe. Access and control are managed easily via the Enphase App.



Reliable and feature-rich charging

- **1 A incremental control**: Easily adjust amperage between 6 A and 32 A per phase for precise, efficient charging.
- **Phase switching**: Smart phase switching supports both single-phase and three-phase charging, optimising energy use.
- **Certified MID meter:** Accurate energy usage tracking.
- **Advanced access control**: Manage access with the mobile app for flexible, secure operation.
- **Standalone or integrated**: Works seamlessly as a standalone charger or can be integrated into an Enphase system for enhanced energy management.
- **All-weather durability**: IP55-rated enclosure for safe, reliable indoor or outdoor installation in any environment.
- **Industry-leading safety**: Built-in residual current device (RDC-DD) and thermal protection ensure safe charging under all conditions.
- **5-year warranty**: Backed by Enphase's industry-leading warranty for peace of mind.

Ease of installation and maintenance

- **Flexible cable options:** 7,5 m cable allows for easy installation and convenient use.
- **Fast installation:** No additional mounting brackets or prewiring kits required—install in under 10 minutes.
- **Quick pairing:** Pair with the app in less than 3 minutes for easy setup and configuration.
- **Service and troubleshooting**: Easily monitor and troubleshoot with the Enphase Installer App to minimise downtime during maintenance.
- **Removable service panel**: Intelligently-designed service panel simplifies access for quick maintenance.

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Model name	IQ EV Charger 2 (socketed, three-phase/single-phase)		IQ EV Charger 2 (tethered, three-phase/single-phase)	
ELECTRICAL SPECIFICATIONS	**IQ-EVSE-EU-3032-0005-1300**		**IQ-EVSE-EU-3032-0105-1300**	
Nominal voltage (±10%)	400 V 3 × 230 V	230 V	400 V 3 × 230 V	230 V
Nominal frequency	50 Hz			
Maximum charging power	22 kW (three-phase Wye) 12.7 kW (three-phase Delta)	7.4 kW (single-phase)	22 kW (three-phase Wye) 12.7 kW (three-phase Delta)	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% to 95% (condensing)			
Altitude	<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 (802.11 ax)			
Bluetooth	BT/BLE 5.3			
Wired communication	Ethernet, RS-485, CAN			
ISO 15118	Yes (Hardware ready)			
SAFETY AND COMPLIANCE				
Compliance	CE (LVD EU/2014/35, EMC Directive EU/2014/30, RED EU/2014/53, RoHS3.0, REACH, IEC/EN 61851-1, IEC/EN 61851-21-2, IEC/EN 62196-1, IEC/EN 62955, IEC 61439-7, IEC/EN 60364-4-41), MID (EN 50470-1, EN 50470-3), EV Ready 2.0			
Safety features	Overvoltage protection (253 V), RDC-DD (±6 mA), relay weld detection, overcurrent detection (+20%)			
In-built sensors	Ambient light sensor, temperature sensor, humidity sensor, and tilt sensor			
Metering accuracy	±1% (Class-B, MID-certified)			
FEATURES				
LED indicator	Animated line LED with RGB colors to indicate the state of the IQ EV Charger 2			
MID meter display	Display voltage, current, and energy (kWh) consumption of the EV charger			
Smart scheduling	Optimises charging with dynamic tariff rates and excess solar power			
Self-consumption	Charge EV on clean energy from the sun by using excess solar power with an Enphase Energy System			
Automatic phase-switching	Automatically switches between three-phase and single-phase to optimise charging from excess PV			
Access control	Available via the Enphase App RFID Enable for third-party RFID cards via the app NFC - Hardware ready			
Integration support	OCPP 2.0.1 and APIs			
WARRANTY				
Warranty duration	5 years			

Revision history

REVISION	DATE	DESCRIPTION
DSH-00464-6.0	December 2024	Added the section “Charging equipment components” to the specifications.
DSH-00464-5.0	December 2024	Updated the model name features.
DSH-00464-4.0	October 2024	Revamped the cover page contents and made updates to the parameters.
DSH-00464-3.0	September 2024	• Updated the region to Europe. • Updated the voltage rating, metering accuracy, MID meter display, and smart scheduling parameters.
DSH-00464-2.0	June 2024	Updated the product name to IQ EV Charger 2.
DSH-00464-1.0	June 2024	Initial release.

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