



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. Whether used as a standalone unit or integrated with Enphase Energy Systems, it optimizes for the lowest utility rates and efficient solar charging. The charger can be set up to offer intelligent features such as time-of-use based charging, remote start/stop, and access control, among others, all via the Enphase App.

Compatible with all Type-2 EVs, the charger's rugged design and built-in safety features guarantee a smooth, safe charging experience for all EV owners. The IP55 rating and CE safety certification enable flexible outdoor or indoor installation and ensure peace of mind. With simple installation and commissioning, the charger can be configured to align with main breaker requirements without the need for any costly upgrades.



Smartly integrated

- **Dynamic load balancing:** The charger adjusts the charging power based on the household consumption, ensuring that the total home consumption does not exceed the contracted per phase power/fuse rating - protecting the home, and avoiding the need for expensive upgrades.
- **Built-in Class B-certified MID meter:** Offers $\pm 1\%$ accuracy for usage tracking and reimbursements.
- **Advanced access control:** App-based authentication for charging sessions prevents misuse of the charger.

Reliable

- **All-weather durability:** IP55-rated enclosure for safe, reliable indoor or outdoor installation in any environment.
- **Industry-leading safety:** Built-in residual current device (RCD-DD) and thermal protection ensure safe charging under all conditions.
- **5-year warranty:** Backed by Enphase's industry-leading warranty for peace of mind.

User-friendly

- **Configure to suit grid supply:** Configure charging current between 6 A to 32 A.
- **Easy installation:** No additional mounting brackets or prewiring kits required; 7.5 m cable allows for convenient use.
- **Quick setup:** Less than 10 minutes to install, and less than 3 minutes to commission via the Enphase Installer App.
- **Smart servicing:** Remote troubleshooting with the Enphase Installer App or simplified maintenance access with the intelligently-designed service panel.

IQ EV Charger 2

Model name	IQ EV Charger 2 – Tethered single-phase UK
ELECTRICAL SPECIFICATIONS	
IQ-EVSE-UK-1032-0105-1300	
Nominal voltage (±10%)	230 V
Nominal frequency	50 Hz
Maximum charging power (configurable)	Up to 7.4 kW (single-phase)
Rated output current	32 A
Earthing arrangement	TN or TT
Provided cable gland size	M25 gland (11–17.9 mm)
Socket or connector	7.5 m Type 2 connector cable
MECHANICAL SPECIFICATIONS	
Enclosure dimensions (L × W × D)	370 mm × 250 mm × 118 mm
Weight	10 kg (including tethered charging cable)
Enclosure rating	IP55/IK10
Service cable entry options	Bottom or rear cable entry
ENVIRONMENTAL SPECIFICATIONS	
Relative humidity range	5% to 95% (condensing)
Altitude	<2,500 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
ISO15118	Yes (hardware ready)
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, IEC 61439-7, IEC/EN 60364-4-41), MID (EN 50470-1, EN 50470-3), UKCA, UK Smart Charging
Safety features	Overvoltage protection (253 V), RDC-DD (±6 mA), relay weld detection, overcurrent detection (+20%), PEN fault detection
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 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
Authentication	Available via the Enphase App RFID/NFC – Hardware ready
Integration support	OCPP 2.0.1 and APIs
WARRANTY	
Warranty duration	5 years

Revision history

REVISION	DATE	DESCRIPTION
DSH-00532-4.0	April 2025	Revamped the cover page and made updates to the specifications.
DSH-00532-3.0	January 2025	Updated the “Safety and compliance” section.
DSH-00532-2.0	October 2024	Revamped the cover page contents and made updates to the parameters.
DSH-00532-1.0	September 2024	Initial release.