



IQ EV Charger 2

The IQ EV Charger 2 combines innovative, cutting-edge software with safety-certified, rugged hardware to deliver reliable EV charging to every home. The system is designed to function based on individual home needs and optimize charging patterns while saving money and minimizing carbon footprint. The charger can be set up to offer intelligent features such as real-time solar charging, time-of-use-based charging, remote start/stop, and access control, among others, all through the Enphase App.

Compatible with all Type-2 EVs, the charger's rugged design and inbuilt safety features guarantee a smooth, safe charging experience for all EV owners. IP 55 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 panel requirements without the need for any costly upgrades.



Smartly integrated

- **Versatile connectivity:** Enabled through Wi-Fi, Bluetooth, and Ethernet for the Enphase App; through IQ Gateway for third-party systems.
- **Dynamic load balancing:** Avoids main panel upgrade and prevents tripping by dynamically adjusting EV and home loads.
- **Solar charging:** Localized solar charging checks for surplus solar every 30 seconds and regulates charging current in 1 A increments.
- **Phase switching:** Automatic 3 to 1 phase switching enables efficient use of solar from as low as 1.4 kW even on cloudy days.
- **Access control:** App-based authentication for charging sessions prevents misuse of the charger.

Robust

- **Safety certified:** IP 55-rated enclosure, in-built protections, and CE safety certification guarantee safe installation outdoors or indoors.
- **Weather-sealed:** Intense testing delivers reliability even in extreme temperatures, humidity, and high-impact situations.
- **Leading warranty:** A 5-year warranty and qualified customer service ensure peace of mind.
- **Universal compatibility:** Ruggedized connector is tested for repeat use with leading Type 2 EVs sold in Australia and New Zealand.

User-friendly

- **Quick setup:** Less than 10 minutes to install, and less than 3 minutes to commission through the Enphase Installer App.
- **Smart servicing:** Remote troubleshooting with the Enphase Installer App or simplified maintenance access with the intelligently designed service panel.
- **Easy installation:** No additional mounting brackets or prewiring kits are required; 7.5 m cable allows for convenient use.

IQ EV Charger 2

Model name	IQ EV Charger 2 (tethered, three-phase/single-phase)	
Electrical specifications	IQ-EVSE-EU-3032-0105-1300	
Nominal voltage (±10%)	400 V 3 × 230 V	230 V
Maximum charging power (configurable)	up to 22 kW (three-phase Wye)	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)
Socket or connector	7.5 m Type-2 connector cable	
Charging equipment components		
7.5 m Type-2 connector cable	Included	
Cable and connector holster	Included	
Mechanical specifications		
Enclosure dimensions (L × W × D)	370 mm × 250 mm × 118 mm	
Weight	11 kg (including the tethered charging cable)	
Enclosure rating	IP55/IK10, TUV Certified UV Resistant Enclosure and Cable	
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)	
Features		
LED indicator	Animated line LED with RGB colours to indicate the state of the IQ EV Charger 2	
Display	Displays voltage, current, and energy (kWh) consumption of the EV charger	
Self-consumption	When integrated with Enphase PV or any other PV system (through IQ Gateway), the charger tracks surplus solar every 30 seconds and redirects it to the EV in 1 A increments	
Scheduled charging	Charges EV based on user-configurable custom or off-peak schedules	
Automatic phase-switching	Automatically switches between three-phase and single-phase to optimize charging from excess PV	
Dynamic load balancing	Automatically adjusts EV charging power based on variations in solar production and home consumption to prevent tripping and avoid upgrades to the main panel	
Access control	Available through the Enphase App RFID Enable for third-party RFID cards through the app NFC - Hardware ready	
Integration support	OCPP 2.0.1 and APIs	
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), RCM, MID (EN 50470-1, EN 50470-3)	
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)	

Warranty

Warranty duration

5 years

Revision history

REVISION	DATE	DESCRIPTION
DSH-00735-1.0	April 2025	Initial release.