

EGO EV 7.4 kW Single Phase Charger

Official Product Datasheet

Executive Summary

The EGO EV Charger is a state-of-the-art electric vehicle charging solution designed for efficiency, safety, and adaptability. This executive summary provides a comprehensive overview of the charger's key features, emphasising its electrical, mechanical, environmental, compliance, and optional functionalities.

Electrical Features

The EGO EV Charger operates within a supply voltage range of 220 to 240VAC at 50Hz, delivering a powerful output of 7.4kW in a single-phase configuration. With a Type 2 socket compliant with IEC 62196-2, the charger supports Mode 3 communication protocol (IEC 61851-1 / SAE J1772). It offers adjustable charging current with load balancing, ranging from 6A to 32A, and incorporates integral RCD Earth Leakage protection for enhanced safety.

Key Electrical Specifications:

- Supply Voltage: 220-240VAC @ 50Hz
- Output Power: 7.4kW (single-phase)
- Type 2 socket (IEC 62196-2)
- Mode 3 communication protocol (IEC 61851-1)
- Adjustable charging current: 6A to 32A
- Integral RCD Earth Leakage protection

Mechanical and Environmental Features

The EGO EV Charger is designed for wall mounting, suitable for both indoor and outdoor installations. It operates within an ambient temperature range of -10°C to +50°C and a humidity range of 5% to 95% (non-condensing). The charger's enclosure, made of UL94 HB Fire Rated ABS material, provides IP54 protection against dust and water ingress. Classified as Insulation Class II and designed to handle overvoltage up to Category III, the charger ensures safety and durability across a range of environmental conditions.

Key Mechanical Specifications:

- Wall mounted installation
- Indoor/outdoor installation (IP54 rated)
- Operating temp: -10°C to +50°C
- Humidity range: 5% to 95% (non-condensing)
- Enclosure: UL94 HB Fire Rated ABS
- Insulation Class II

Compliance

The charger complies with essential European directives and standards, including CE Marking, EMC Directive 2014/30/EU, IEC 61851-1, IEC 62196-2, EN55032, 61000-3, and 61000. It must be permanently connected to a single-phase supply capable of delivering 7.36kW at 32A. Installation should adhere to local regulations for low voltage electrical installations, and the product is designed and tested according to EN 61851 standards for electric vehicle conductive charging systems.

Standards Compliance:

- CE Marking
- EMC Directive 2014/30/EU
- IEC 61851-1
- IEC 62196-2
- EN55032
- 61000-3 & 61000

EGO EV 7.4 kW — Additional Details

Optional Features

The EGO EV Charger offers several optional features to enhance user experience and accommodate various preferences. Options include an RFID card reader for secure authentication, a tethered Type 1/Type 2 cable (5m) for convenient connectivity, ISO15118 support for Vehicle-to-Grid (V2G) and Plug & Charge functionality, solar charging capability using an additional CT clamp, and co-branding availability, subject to Minimum Order Quantities (MOQs).

Available Options:

- RFID card reader for secure authentication
- Tethered Type 1/Type 2 cable (5m)
- ISO15118 support for V2G and Plug & Charge
- Solar charging capability with additional CT clamp
- Co-branding available (MOQs apply)

For more information or to place an order, please contact:

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