# SolarEdge EV Charger

## For Europe

SMART ENERGY

3 YEAR WARRANTY


## EV charging solution that seamlessly integrates with the full SolarEdge ecosystem

- Mode 3 charging station, with up to 32A (22kW) charging power
- Suitable for single and three phase installations, for both indoor and outdoor use
- Utilizes excess PV to charge EV's from the sun, for reduced homeowner electricity bills*
- Control and monitoring via the mySolarEdge app, including remote operations, smart scheduling and charging history*
- Part of the all-in-one SolarEdge home platform, incorporating PV, battery storage, smart home devices and EV charging
- Integrated optional RFID card authentication and MID/ME meter
- OCPP compatible*
- Includes an integrated 6m EV charging cable with Type 2 connector or Type 2 socket

* Expected availability in 2022 via software upgrade



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# / SolarEdge EV Charger, for Europe

| | | | |
|---|---|---|---|
| **SPECIFICATIONS** | | | |
| Rated AC Power Output | | 4.6 / 7.4 / 11 / 22 | kW |
| Rated Current (configurable) | | 10 / 13 / 16 / 20/ 25 / 32 Single Phase or Three Phase | A |
| Nominal AC Output Voltage | | 3 x 230 / 400 | V |
| Line Frequency | | 50 | Hz |
| Mains Forms | | TT / TN / IT | |
| Internal Consumption | | Idle: 4, plugged in: 5, charging: 7 | W |
| Charge Mode | | Mode 3 in accordance with IEC 61851-1 AC charging | |
| Over-Voltage Category | | III, in accordance with EN 60664 | |
| Protection Class | | IP54 | |
| Protection Against Mechanical Impact | | IK10 | |
| Rated Short-Circuit Current | | < 10 (effective value in accordance with EN 61439-1) | kA |
| Residual Direct Current Detecting Device (RDC-DD) | | > 6 (characteristic in accordance with IEC 62955, < 10 s) | mA |
| Ventilation | | No | |
| **AC TERMINALS** | | | |
| Cable Feed | | Top (surface), back side (flush) | |
| Type | | Spring-type terminal | |
| Cross Section | Rigid / flexible | 0.2 – 16 | mm2 |
| | Flexible with wire end sleeve with / without plastic sleeve | 0.25 – 10 | mm2 |
| Stripping Length | | 12 | mm |
| Suggested minimum cross-section of supply cable | 16 A rated current | 5 x 2.5 | mm2 |
| | 32 A nominal current | 5 x 6.0 | mm2 |
| Temperature Rating | | 105 | °C |
| **CABLE / SOCKET** | | | |
| Type | | Type 2: up to 32 A / 400 V AC in accordance with EN 62196-1 and VDE-AR-E 2623-2-2 | |
| Cable Length (for variants with cable) | | 6 | m |
| **AMBIENT CONDITIONS** | | | |
| Installation Environment | | Indoor and outdoor | |
| Operating Temperature @16 A | | -25 to +50 (without direct sunlight) | °C |
| Operating Temperature @32 A | | -25 to +40 (without direct sunlight) | °C |
| Storage Temperature | | -25 to +80 | °C |
| Relative Air Humidity | | 5 to 95 (non-condensing) | % |
| Altitude | | Max. 2000 above sea level | m |
| **COMMUNICATION INTERFACE** | | | |
| Ethernet 1 | | LSA+® terminals | |
| Data Transfer Rate | | 10 / 100 | Mbit/s |
| Ethernet 2 | | RJ45 alternative to Ethernet 1 | |
| WLAN/WI-FI | | IEEE 802.11 b,g,n, 2.4 GHz | |
| WLAN/WI-FI Supported Modes | | AP Ad-hoc-Mode, Client Mode Frequency 2400-2483.5 MHz, EIRP ≤ 20 dBm | |
| **ADDITIONAL CAPABILITIES** | | | |
| RFID Card | | MIFARE card /tag according to ISO 14443 or ISO 15693 Frequency 13.553-13.567 MHz, EIRP ≤ -7 dBm | |
| OCPP Backend | | SolarEdge OCPP pre-configured | |
| **STANDARD COMPLIANCE** | | | |
| CE Declaration of Conformity | | Yes | |
| MID | | Optional, Accuracy Class B (according to EN 50470-1 / -3) | |
| ME (Eichrecht) | | Optional, National approval for auxiliary device | |
| **DIMENSIONS AND WEIGHT** | | | |
| Height (Cable / Socket), Width, Depth | | 643 / 495, 240, 142 | mm |
| Weight (Cable / Socket) | | 7.8 / 5 | kg |

## ORDERING INFORMATION

| PART NUMBERS | DESCRIPTION |
|---|---|
| SE-EVK22C00-01 | SolarEdge EV Charger, 22 kW, 6m Cable, Type 2 |
| SE-EVK22CRM-01 | SolarEdge EV Charger, 22 kW, 6m Cable, Type 2, RFID, MID |
| SE-EVK22SRM-01 | SolarEdge EV Charger, 22 kW, Socket, Type 2, RFID, MID |
| SE-EVK22SRG-01 | SolarEdge EV Charger, 22 kW, Socket, Type 2, RFID, ME |
| SE-ACCRF10-01 | Kit of 10 SolarEdge RFID cards |



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