

# SolarEdge Home EV Charger For Europe



SMART ENERGY

## Residential 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 residential platform, incorporating PV, battery storage, smart home devices and EV charging
- OCPP compatible with integrated optional RFID card authentication
- Includes an integrated 6m EV charging cable with Type 2 connector

\* Requires future software update

# / SolarEdge Home EV Charger

## For Europe

|                                                   |                                                             | SE-EVK22Cxx-01                                                                                     |                 |
|---------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------|
| <b>SPECIFICATIONS</b>                             |                                                             |                                                                                                    |                 |
| Rated AC Power Output                             |                                                             | 4.6 / 7.4 / 11 / 22                                                                                | kW              |
| Rated Current (configurable)                      |                                                             | 10 / 13 / 16 / 20 / 25 / 32<br>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              |                                                             | IK08                                                                                               |                 |
| 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                                                                                                 |                 |
| <b>AC TERMINALS</b>                               |                                                             |                                                                                                    |                 |
| Cable Feed                                        |                                                             | Top (surface), back side (flush)                                                                   |                 |
| Type                                              |                                                             | Spring-type terminal                                                                               |                 |
| Cross Section                                     | Rigid / flexible                                            | 0.2 – 16                                                                                           | mm <sup>2</sup> |
|                                                   | Flexible with wire end sleeve with / without plastic sleeve | 0.25 – 10                                                                                          | mm <sup>2</sup> |
| Stripping Length                                  |                                                             | 12                                                                                                 | mm              |
| Connection Cross-section of the Supply            |                                                             | Suggested Minimum cross-section                                                                    |                 |
|                                                   | 16 A rated current                                          | 5 x 2.5                                                                                            | mm <sup>2</sup> |
|                                                   | 32 A nominal current                                        | 5 x 6.0                                                                                            | mm <sup>2</sup> |
| Temperature Rating                                |                                                             | 105                                                                                                | °C              |
| <b>CABLE / SOCKET</b>                             |                                                             |                                                                                                    |                 |
| Cable Versions                                    |                                                             | Type 2 cable: up to 32 A / 400 V AC in accordance with EN 62196-1 and VDE-AR-E 2623-2-2            |                 |
| <b>AMBIENT CONDITIONS</b>                         |                                                             |                                                                                                    |                 |
| 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               |
| <b>ETHERNET INTERFACE</b>                         |                                                             |                                                                                                    |                 |
| Ethernet 1                                        |                                                             | LSA+® terminals                                                                                    |                 |
| Data Transfer Rate                                |                                                             | 10 / 100 / 1000 Mbit/s                                                                             |                 |
| Ethernet 2                                        |                                                             | RJ45 (for debug)                                                                                   |                 |
| <b>WLAN/WI-FI</b>                                 |                                                             |                                                                                                    |                 |
| Type                                              |                                                             | IEEE 802.11 b,g,n, 2.4 GHz                                                                         |                 |
| Supported Modes                                   |                                                             | AP Ad-hoc-Mode, Client Mode<br>Frequency 2400-2483.5 MHz, EIRP ≤ 20 dBm                            |                 |
| <b>OPTIONS</b>                                    |                                                             |                                                                                                    |                 |
| RFID Card                                         |                                                             | MIFARE card /tag according to ISO 14443 or ISO 15693<br>Frequency 13.553-13.567 MHz, EIRP ≤ -7 dBm |                 |
| OCPP Backend                                      |                                                             | SolarEdge OCPP pre-configured                                                                      |                 |
| <b>CERTIFICATIONS</b>                             |                                                             |                                                                                                    |                 |
| CE Declaration of Conformity                      |                                                             | Yes                                                                                                |                 |
| MID                                               |                                                             | Optional, Accuracy Class B (according to EN 50470-1 / -3)                                          |                 |
| <b>DIMENSIONS AND WEIGHT</b>                      |                                                             |                                                                                                    |                 |
| Height / Width / Depth                            |                                                             | 643 / 240 / 142                                                                                    | mm              |
| Weight                                            |                                                             | 7.8                                                                                                | kg              |