SolarEdge EV Charger

For Europe

SMART ENERGY

Residential EV charging solution that seamlessly integrates with the full SolarEdge Home ecosystem

- Utilizes excess PV to charge EV from the sun, for reduced homeowner electricity bills
- Charge smarter with our custom scheduling feature, allowing automatic charging during low-rate periods
- Suitable for single and three phase installations, for both indoor and outdoor use
- Control and monitoring via the mySolarEdge app, including remote operations, charging schedules, and charging history
- Optional RFID card authentication and MID meter
- Supports up to three SolarEdge EV Chargers per site(1)

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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	
Maximum Device Pairing Capacity		3 SolarEdge EV Chargers per site(1)	
AC TERMINALS			
Cable Feed		Top (surface); back side (flush)	
Type		Spring-type terminal	
Cross-section	Rigid / flexible	0.2 – 16	mm^2
	Flexible with wire end sleeve with / without plastic sleeve	0.25 – 10	mm^2
Stripping Length		12	mm
Connection Cross-section of the Supply		Suggested minimum cross-section:	
	16 A rated current	5 x 2.5	mm^2
	32 A nominal current	5 x 6.0	mm^2
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)	
Mess- und Eichrecht (ME)		Optional with SE-EVK22SRG-01	
INSTALLATION SPECIFICATIONS			
Compatible SolarEdge Inverters		Residential inverters with SetApp configuration, including: SolarEdge Home Hub Inverters, SolarEdge Home Wave Inverters, SolarEdge Short String Inverters, SolarEdge Three Phase Inverters (SE16K and SE17K)	
Height (Cable / Socket) X Width X Depth		643 / 495 X 240 X 142	mm
Weight (Cable / Socket)		7.8 / 5	kg

(1) Supported from inverter firmware version 4.21.

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
SE-EVK22C00-01	SolarEdge EV Charger – 22 kW Three Phase, 6m Cable, Type 2 Connector
SE-EVK22CRM-01	SolarEdge EV Charger – 22 kW Three Phase, 6m Cable, Type 2 Connector, RFID, MID
SE-EVK22SRG-01	SolarEdge EV Charger 22 kW – Three Phase, Socket, Type 2 Connector, RFID, Mess- und Eichrecht
SE-EVK22SRM-01	SolarEdge EV Charger – 22 kW Three Phase, Socket, Type 2 Connector, RFID, MID
SE-ACCRF10-01	Kit of 10 RFID cards

CE