SolarEdge EV Charger

For United Kingdom

SE-EVK74C00-01 / SE-EVK22URM-01

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
- G100 Issue 2 Amendment 2 compliant
- Tamper protection – designed to detect and alert about any tamper attempts
- Optional RFID card authentication and MID meter*

* Only available in SolarEdge EV Charger for Three Phase systems, PN SE-EVK22URM-01.

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		SE-EVK74C00-01	SE-EVK22URM-01	
SPECIFICATIONS				
Rated AC Power Output		Up to 7.4kW	Single Phase: Up to 7.4kW Three Phase: Up to 22kW	kW
Rated Current (configurable)		Single Phase: 10 / 13 / 16 / 20 / 25 / 32	Single Phase and Three Phase: 10 / 13 / 16 / 20 / 25 / 32	A
Nominal AC Output Voltage		230	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		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	16 A rated current	Suggested minimum cross-section: 5 x 2.5		mm^2
	32 A nominal current	Suggested minimum cross-section: 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		6 m cable	Socket	
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 (ISO 14443 or ISO 15693) Frequency 13.553-13.567 MHz, EIRP ≤ -7 dBm	
OCPP Backend		SolarEdge OCPP pre-configured		
Tamper Protection		SolarEdge Tampering Alert System		
STANDARD COMPLIANCE				
UKCA		Yes		
MID		-	Accuracy Class B (in accordance with EN 50470-1 /-3, CE)	
G100 Issue 2 Amendment 2		Yes, with SolarEdge PV inverter(1) and Energy Meter or Backup Interface		
British Standard 7671:2018 + A1:2020		External grounding mechanism required to comply with this regulation		
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) G100 mandates robust communication with the EV Charger, therefore an Ethernet connection is highly recommended.

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