SolarEdge ONE EV Charger

SMART ENERGY

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

- Use excess PV with smart scheduling for advanced charging plans during low electricity prices, import limitation for peak shaving, and surge protection
- Suitable for single and three phase installations, both indoor and outdoor
- Flexible charger that uses a socket or tethered options by permanent cable lock
- Control and monitoring via SolarEdge apps, including remote operation, updating charging schedules, and viewing charging history
- Supports charging authentication using the built-in RFID reader, mobile app, or simple plug-and-play
- Optional MID meter and ISO 15118 Plug & Charge*
- Sleek, compact design with an installation-friendly, snap-on mounting for rapid setup

* Available with the SolarEdge ONE EV Charger Pro model only; coming soon.

/ SolarEdge ONE EV Charger

	SolarEdge ONE EV Charger[1]	SolarEdge ONE EV Charger Pro[1]	Units
SPECIFICATIONS			
AC Grid Phase Connection	1 or 3 phases Auto-switching for excess PV charging		
Rated AC Power Output	Up to 22		kW
Rated Current (per phase)	6 – 32		A
Nominal AC Output Voltage	3 X 230 / 400 (±10%)		VAC
Line Frequency	50		Hz
Mains Forms	TN / TT / IT		
EV Socket Type	Type 2: Up to 32 A / 400 V AC in accordance with EN 62196-1		
Charge Mode	Mode 3 in accordance with IEC 61851-1 AC charging		
Over-Voltage Category	III, in accordance with EN 60664-1		
Protection Class	IP54		
Mechanical Protection Class	IK08		
Residual DC Detecting Device	RDC-DD (6 mA DC) according to IEC 62955		
AC TERMINALS			
Cable Feed	Top, Back, or Bottom		
AC Terminal Cross-Section Support	0.2 – 16		mm^2
AC Cable Stripping Length	12		mm
AMBIENT CONDITIONS			
Installation Environment	Indoor and outdoor		
Operating Temperature	-30 to +50		°C
Storage Temperature	-40 to +70		°C
Working Air Humidity	5 to 80 (non-condensing)		%
Working Altitude	Maximum 2000 above sea level		m
CONNECTIVITY			
WiFi	IEEE 802.11 b/g/n, 2.4 GHz		
Ethernet	RJ45		
Built-in eSIM[2]	–	LTE / 2G / GPRS[3]	
Bluetooth	BLE 4.2		
RFID Reader	ISO / IEC 14443 Type A		
OCPP Support[2]	OCPP 1.6J		
ISO 15118	–	Hardware-ready	
ENERGY METERING			
Energy Meter	Built-in meter	MID Class B according to EN 50470-3	
Energy Meter Display	–	Built-in meter OLED display	
STANDARD COMPLIANCE			
CE Declaration of Conformity	Yes		
EU Standard Compliance	EU Type Examination Certificate (Module B) confirming compliant with: 2014/53/EU (RED) | 2014/35/EU (LVD) 2014/30/EU (EMC) | 2011/65/EU (RoHS)	EU Type Examination Certificate (Module B) confirming compliant with: 2014/53/EU (RED) | 2014/35/EU (LVD) 2014/30/EU (EMC) | 2011/65/EU (RoHS) | 2014/32/EU (MID) EU Type Examination Certificate (Module D) confirming compliant with 2014/32/EU (MID)	
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)[4] SolarEdge Three Phase Commercial Inverter and SolarEdge Three Phase Inverter with Synergy Technology[2]		
Dimensions (Height x Width x Depth)	235 x 230 x 130		mm
Wall Mounting (Height x Width)	206 x 130		mm
Weight	1.8	2.3	kg

(1) SolarEdge ONE EV Charger and SolarEdge ONE EV Charger Pro models - coming soon.
(2) Commercial/standalone only.
(3) Cellular connectivity plans can be purchased separately through the ONE EV platform.
(4) SolarEdge Home only.

ORDERING INFORMATION	
PART NUMBER	**DESCRIPTION**
SE-EVN22SE0-01	SolarEdge ONE EV Charger 22kW, Socket, WiFi, Ethernet, RFID
SE-EVN22SEM-01	SolarEdge ONE EV Charger Pro, WiFi, Ethernet, RFID, MID, LTE, ISO 15118

CE