

SolarEdge ONE EV Charger

For the United Kingdom

SMART ENERGY



Residential 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 phase installations, both indoor and outdoor
- / Tamper protection – designed to detect and alert about any tamper attempts
- / 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
- / G100 Issue 2 Amendment 2 compliant
- / Supports charging authentication using the built-in RFID reader, mobile app, or simple plug-and-play
- / Sleek, compact design with an installation-friendly, snap-on mounting for rapid setup

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	SolarEdge ONE EV Charger		
Model Number	EVN74BU		Units
SPECIFICATIONS			
AC Grid Phase Connection	1 phase		
Rated AC Power Output	Up to 7.4		kW
Rated Current (per phase)	6 – 32		A
Nominal AC Output Voltage	230		VAC
Line Frequency	50		Hz
Mains Forms	TN / TT / IT		
EV Socket Type	Type 2: Up to 32 A 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	IK10		
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		mm²
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		
Bluetooth	BLE 4.2		
RFID Reader	ISO / IEC 14443 Type A		
OCPP Support ⁽¹⁾	OCPP 1.6J		
ISO 15118	Hardware-ready		
ENERGY METERING			
Energy Meter	Built-in		
ADDITIONAL CAPABILITIES			
Tamper Protection	SolarEdge Tampering Alert System		
STANDARD COMPLIANCE			
UKCA 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)		
G100 Issue 2 Amendment 2	Yes, with SolarEdge PV inverter ⁽²⁾ and Energy Meter or Backup Interface		
PEN Fault Detection	British Standard 7671:2018 + A1:2020		
INSTALLATION SPECIFICATIONS			
Compatible SolarEdge Inverters	Residential inverters with SolarEdge Go configuration, including: SolarEdge Home Hub Inverters, SolarEdge Home Wave Inverters, SolarEdge Short String Inverters, SolarEdge Three Phase Inverters (SE16K and SE17K) ⁽³⁾		
Dimensions (Height x Width x Depth)	235 x 230 x 107		mm
Weight	2.1		kg

(1) Standalone only.
(2) G100 mandates robust communication with the EV Charger, therefore an Ethernet connection is highly recommended.
(3) SolarEdge Home only.

ORDERING INFORMATION	
PART NUMBER	DESCRIPTION
SE-EVN74SU0-01	SolarEdge ONE EV Charger for UK, 7.4kW / 1ph, Socket, WiFi, Ethernet, RFID, ISO15118, G100 compliance, tamper protection and PEN fault detection