

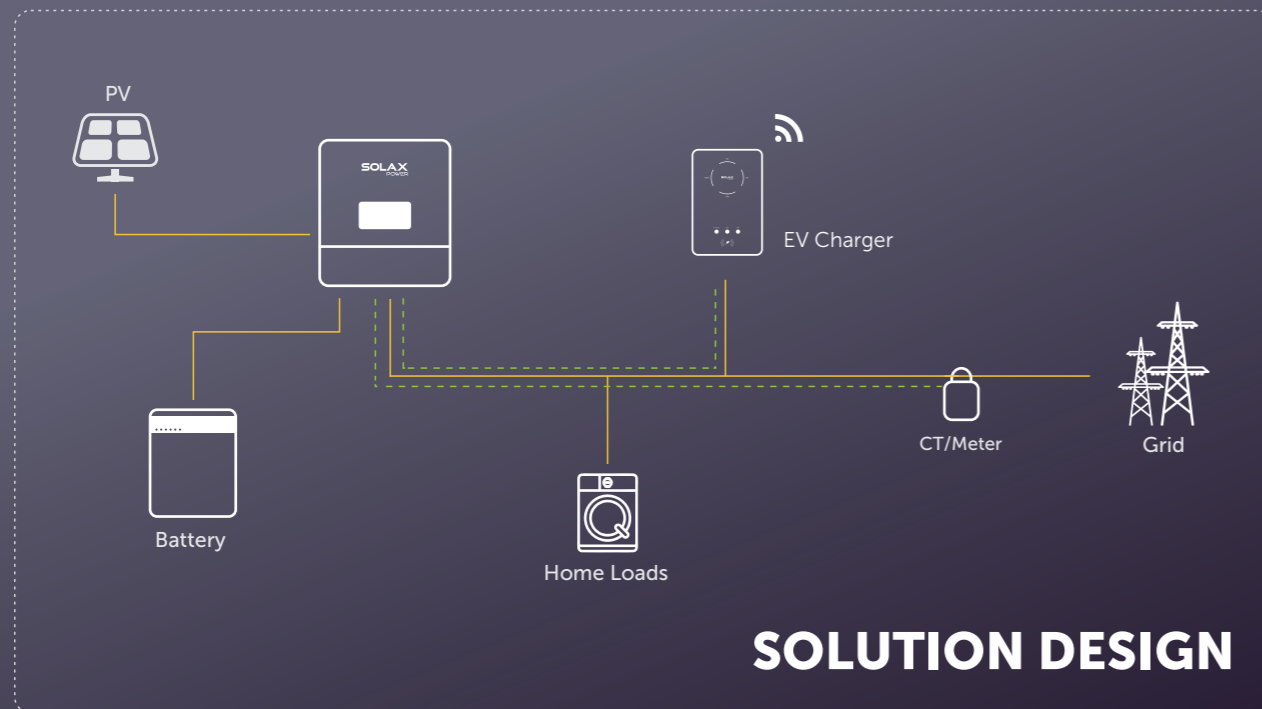
SMART EV CHARGER

X1-EVC-7.2K
X3-EVC-11K / X3-EVC-22K



Features

- Plug or socket outlet selectable
- Integrated current failure monitoring (30mA AC & 6mA DC)
- Integrated with PEN protection and no earth rod^①
- Encrypted communication based on TLS
- Indoor and outdoor easy installation
- Form an intelligent photovoltaic, storage and EV charging energy system through the communication between the smart EV charger and Solax inverter.
- Capable with 100% green energy generated from your solar or wind generation.
- Integrated RFID function
- Remote setting and monitoring with APP and website
- Smart dynamic load balance control
- Set timers to reduce your cost during peak and valley price



SOLUTION DESIGN

SMART EV CHARGER

Specification	Model	X1-EVC-7.2K	X3-EVC-11K	X3-EVC-22K
AC Nominal Input	Phases/Lines	Single phase	Three phase	Three phase
	Voltage [V]	230; 1/N/PE	230/400; 3/N/PE	230/400; 3/N/PE
	Frequency [Hz]	50/60; ±5	50/60; ±5	50/60; ±5
AC Nominal Output	Voltage [V]	230; 1/N/PE	230/400; 3/N/PE	230/400; 3/N/PE
	Current [A]	32	16	32
	Power [kW]	7.2	11	22
Interface	Wireless Module		Wi-Fi 2.4GHz	
	RS485		YES	
	RFID		YES	
	OCPP 1.6 (JSON)		Optional	
	LCD Screen		Optional	
	CT Clamps	x1	x3	x3
	Housing Material		Plastic/Metal	
General Data	Installation Method		Wall-mount/ Pedestal-mount (Optional)	
	Wall-mount Bracket		Yes	
	Charging Outlet		Type P(Charging cable with plug)/Type S(Socket-outlet)	
	Cable Length [m]		6.5 (Type P)	
	Operating Temperature [°C]		-30 ~ 50	
	Working Humidity [%]		5%~95% without condensation	
	Working Altitude [m]		<2000	
	Degree of Protection		IP65	
	Impact Resistant		IK08	
	Application Site		Indoor/Outdoor	
	Cooling Concept		Natural cooling	
	Dimension(WxHxD) [mm]		249*370*155(for type S)/265*370*155(for type P)	
	Net Weigth [kg]		7(for type S)/10.5(for type P)	
Security Protection	Multiple Protection		Over/Under voltage protection,Overload protection,Shortcircuit protection, Current leakage protection,Grounding protection, Surge protection, Overtemperature protection	
	Integral Earth Leakage Protection		Integrated current failure monitoring (30mA AC & 6mA DC)	
ADVANCED FUNCTIONS	Built-in PEN fault technology ^①		According to BS 7671:2018 requirements	
	Safety Standard		IEC 61851-1:2017, IEC 62196-2:2016	
	Encrypted Communication		TLS	
	Certification		CE, UKCA, LVD, EMC, RED	

Green Mode: The main purpose of Green mode is to charge the EV with PV energy as much as possible. The default level is 6A, in which the Smart EV Charger will never take electricity from the grid, while there is another 3A level, capable to purchase a little electricity from the grid but no more than 3A. In the Green mode, the minimum charging current is 6A. This work mode will spend all its effort to help clients reduce the cost of buying electricity from the grid.

ECO Mode: ECO mode help users to charge their EV with a fixed power while the energy will also from the PV as much as possible. The gap will be supplied by the grid. The charging current can be set thus control the output power. For example, the users set the charging current 16A. If the current from the inverter is only 10A then the rest would be taken from the grid as 6A. If the current from the inverter is 18A, then the Smart EV Charger will output 18A.

Fast Mode: Will charge the EV at the fastest rate and will import grid electricity if there is insufficient surplus generated power. The max charging power will be the minimum value of the rated power and the current grid limit power.

Charging mode

ADVANCED FUNCTIONS

Smart boost

With Smart Boost function, the Smart EV Charger will spend all its effort to use the PV energy as much as possible.

Users could set an "End Time" and "Charge Energy", the Smart EV Charger will automatically output the power according to the rest time and rest energy and this part of energy will be taken from PV, if any, in the first place.

Timer Boost

Users, when enable the "Timer Boost" function, are able to set a period of time, during which the Smart EV charger will charge the EV as fast as it can no matter in which work mode.

Dynamic load balancing

Full dynamic load balancing allows you to charge as fast as possible at your charging mode, protects the main fuse and ensures that you can use your electricity whenever it's needed.

① Only for chargers sold in the UK region

*V2.4. Information may be subject to modify without notice.650.00017.00