Residential
Smart Charger



Single Phase

7.4 kW/32 A

SCharger-7KS-S0

Three Phase

22 kW/32 A

SCharger-22KT-S0

PV Power Preferred [1]

Power Your Car with Solar

Make EV Even Greener

Automatic Phase Switch [2]

Automatic Switch between 1 Phase and 3 Phase

More Usable Green Power

3 Ways Authentication

Bluetooth, RFID and APP

Avoid Accidental Charging

Dynamic Charging Power

Automatic Detection and Adjustment

No Worry about Overload

All on a Single APP

Full Control Through One APP

for All PV + ESS + Charger

3-Step Installation

Fast Installation in 16 Minutes

Wiring-free Maintenance

Version No.:18-(20221222)

Smart Charger

Technical Specifications

Technical Specification	SCharger-7KS-S0	SCharger-22KT-S0
Inputs and Outputs		
Charge power (configurable)	1.4 kW to 7.4 kW	1.4 kW [3] to 22 kW
Nominal voltage	230 V (1-phase) ± 20%	400 V (3-phase) ± 20%
Nominal current (configurable)	6–32 A (1-phase)	6–32 A (3-phase or 1-phase)
Nominal frequency	50 Hz/60 Hz ± 1 Hz	
Vehicle connection	Type 2 socket	
Cable width	Up to 10 mm^2	
Network types	TN, TT, IT	TN, TT
User Interface & Communications		
Protocol	Modbus TCP	
Communication	Wi-Fi/Ethernet	
Charger status information	WRGB LED, App	
Authentication	RFID (ISO-14443-A), App, Bluetooth	
Remote control & monitoring	App	
Working mode	Normal Charge Scheduled Charge PV Power Preferred	
Protection		
Cable protection	Cable E-Lock via App	
Residual current protection (RCD)	Type A(30mA) + DC 6 mA integrated (IEC 62955 & IEC 61008-1)	
Fire Class	UL94	
Overcurrent protection	IEC 61851-1	
Over-temperature protection	Yes	
Surge protection	CAT II	
General Specifications		
Operating temperature range	–35°C to +45°C	–35°C to +40°C @ 32A –35°C to +50°C @ 16A
Application environment	Outdoor/Indoor	
Storage temperature	–40°C to +70°C	
Relative humidity	5% RH–95% RH	
Altitude	≤ 2000 m (derating between 2000~4000m)	
Dimensions (H x W x D)	335 mm x 180 mm x 145 mm	
Weight	3 kg	3.1 kg
Installation mode	Wall-mounted	
IP rating	IP54	
Impact protection level	IK10	
Standby self-consumption	< 6 W	
Standards Compliance (More Available Upon Request)		
Standard	EN 61851-1 2019, IEC 62955:2018, IEC 61008-1 2010, IEC/EN 62196-1	
Others		
Accessories	RFID Card * 2	

*1 Currently available for free trail and will be notified 30 days in advance, when the function enters the charging phase
*2 Available in PV Power Preferred Mode
*3 1.4 kW for 1-Phase charge and 4.2 kW for 3-Phase charge