Schneider Home

Produce, Monitor, Control and Optimize your energy

Schneider Electric Solution for Prosumer Homes - IEC

Catalog 2024

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Life Is On Schneider Electric

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Contents

Who is a Prosumer?

Homeowners of the millennium are facing a new dilemma

Growing consumption of electricity at home

The demand for electricity at home is growing at unprecedented rate, driven largely by the **rise in EV**, charging at home in more than 80% of cases(1), **and increased use of heat pumps**.

This means that your customers' homes need, or will sooner or later need, more power than ever before.

Electricity needs to be greener and more affordable

Domestic electricity accounts for 20% of CO_2 emissions.(2)

Homeowners are looking for ways to reduce their carbon footprint without compromising their comfort, especially at home.

Spiraling energy costs

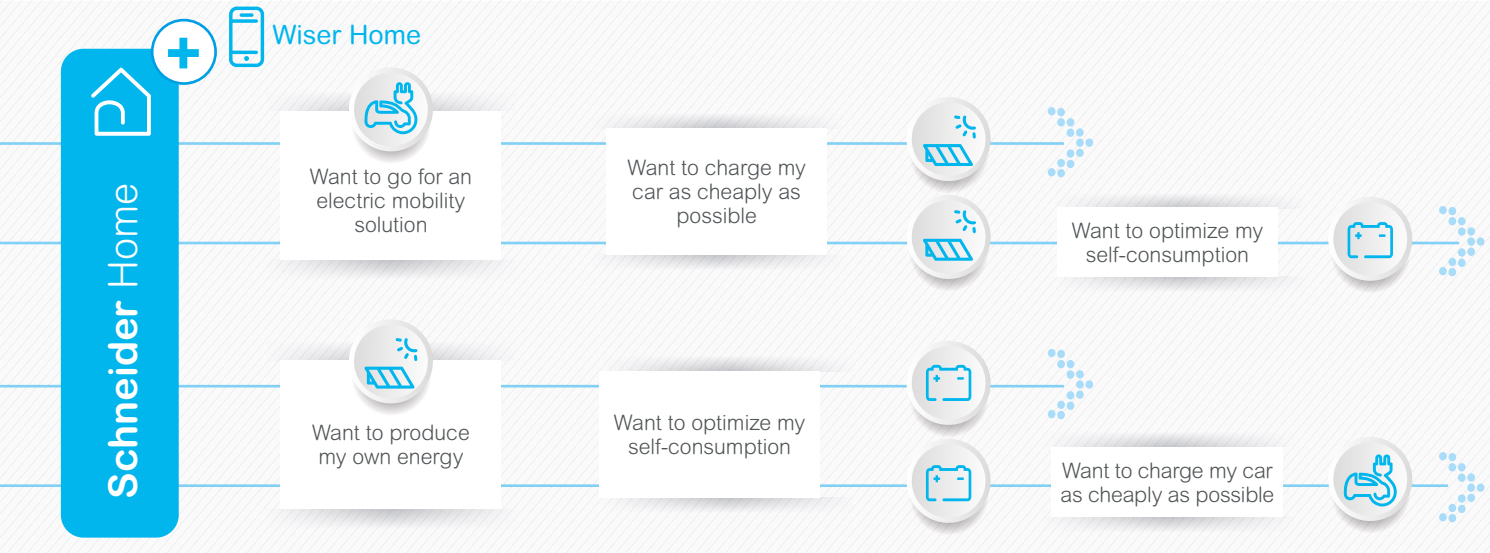
Prices are fluctuating more than ever before, and homeowners are looking for solutions to control and reduce their spending.

"Prosumer" is a portmanteau term of electricity PROducer and conSUMER.

A prosumer is a homeowner who has a domestic means of electricity production, usually from a solar installation, and who consumes the electricity they produce.

Prosumers can access the grid power supply to supplement their domestic production levels to meet their needs or can export back to the grid any solar energy they have produced which is surplus to requirements.

A prosumer journey can start by producing OR by consuming more sustainable energy



(1) A biginners' guide to Electric Cars - Charge Hub - Canada's EV charging strategy reaches fork in the road - Reuters
(2) The carbon footprint of household energy use in the United States - PNAS - The rise of home energy efficiency - Schneider Electric

Schneider Home Solution from Schneider Electric

Self-produce, consume better, consume smarter

Schneider Home solution helps homeowners to:

Moderate exposure to price hikes

by producing their own electricity.

Reduce bills, optimize consumption

by responding to increased power needs with less electricity coming from energy retailers.

Improve carbon footprint

by driving EV powered with green and self-generated electricity.

Schneider Home is a residential ecosystem which evolves with domestic needs. This is a scalable system that can be installed in new or existing houses, all-at-once or starting from one component and adding more to complete the system as the homeowners' needs change.

Schneider Home is the first comprehensive, all-in-one home energy management solution from one single vendor making installation and management easy.

Schneider Home solution

Schneider Inverter

Choose a high-power hybrid inverter for converting solar energy output into usable AC electricity.

Schneider Boost

Store solar energy during the day so it can be used during peak-rate hours to save on utility bills.

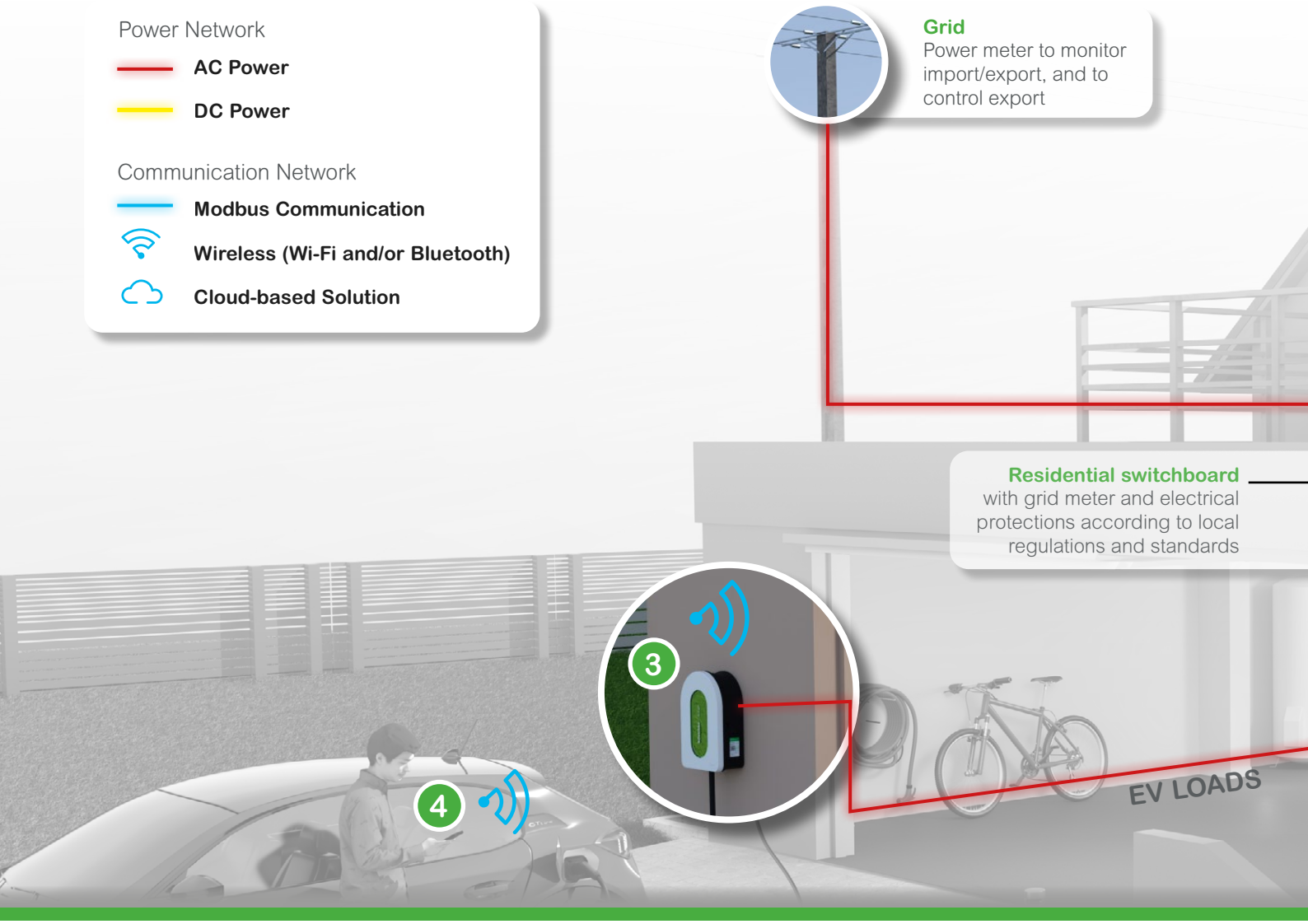
Schneider Charge

Charge electric vehicles conveniently while reducing costs and CO_2 emissions.

Schneider Home hardware can be managed seamlessly by the Wiser Home App.
Wiser isn't just about basic home functions and device control, including EV charging.
It's a complete ecosystem for decoding consumption patterns and reducing energy waste.

What's more, Wiser can help to harness the full solar potential of your installation.

Introducing **Schneider** Home Solution



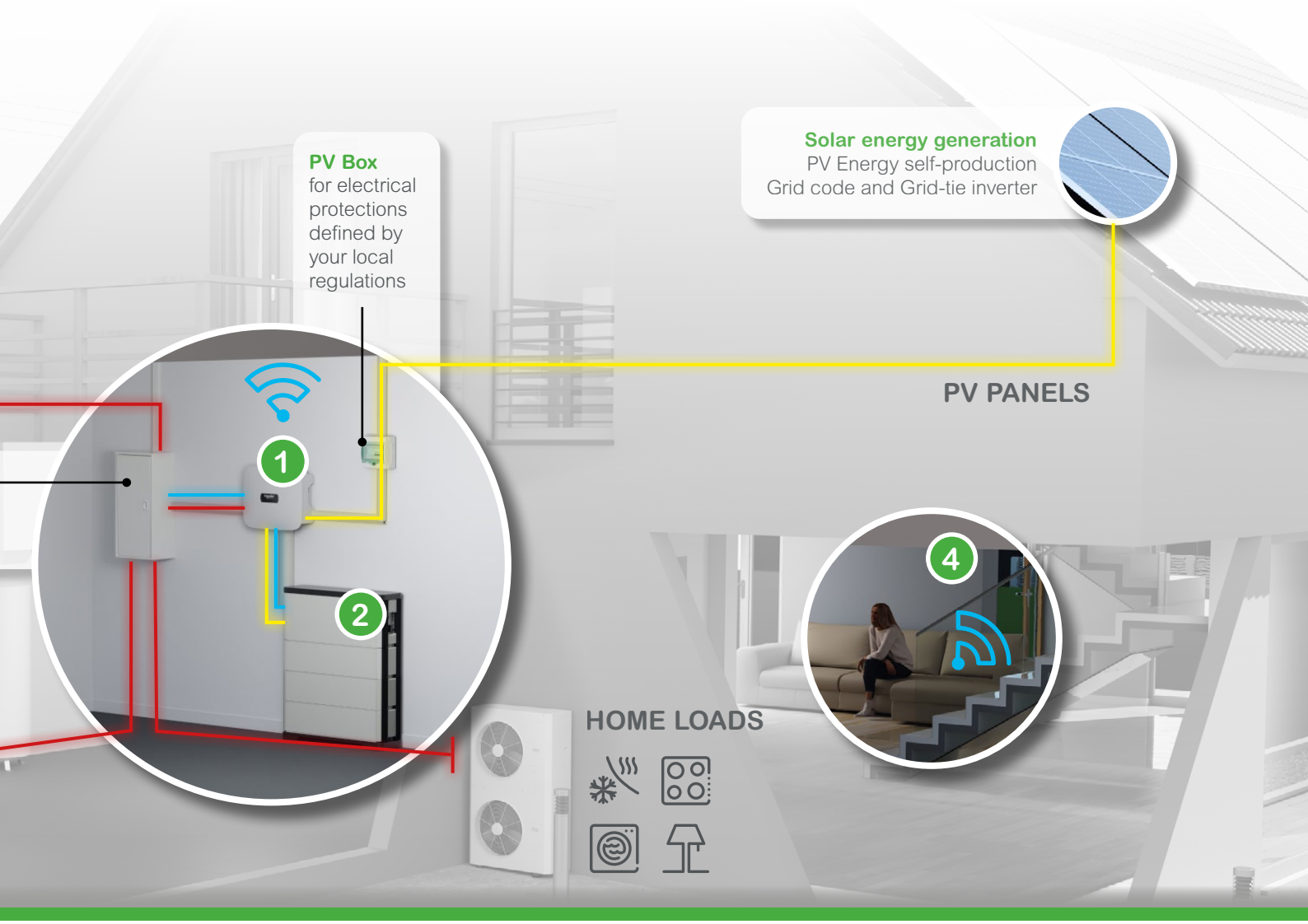
Schneider Inverter (DC/AC)
Hybrid Solar and Storage Inverter

Technical specifications:

- 3 x 1P models (4.6, 6 & 8 kW)
- 3 x 3P models (8, 10 & 14 kW)
- Up to 97.5% EU efficiency
- Up to 3 MPPTs
- Natural convection cooling
- Wi-Fi dongle

Schneider Electric
Installer Portal

Monitor performance of your installed base and unable remote diagnosis on any incident.



Schneider Boost
Flexible Battery System

To maximize self-consumption of solar energy

- 3.4 kWh module, stackable (max. 6 modules)
- LFP chemistry
- 92% Roundtrip efficiency

Schneider Charge
EV Charging Station

For the installer:
- Effortless installation in minutes
- Simple and fast commissioning via Schneider Electric apps (Wiser Home or eSetup)
- End-to-end EV solution
- 1P 7kW Level 2 charger
- 3P 11kW Level 2 charger
- Anti-tripping module

For the homeowners:
- Aesthetic and robust charger
- Efficient use of energy
- Remote control with Wiser Home App

Wiser Home

To enable homeowners to control their Schneider Home solution conveniently via their smartphone:
- Optimize cost and energy usage: Reduce my bill feature leverages PV, hot water tank, EV charging and grid tariffs
- Monitor grid, local production and home loads*
- Control EV charging

* Metering and control of other home loads possible with additional devices from the Wiser system.

Schneider Home (IEC products)

Schneider Inverter

Power your home with sunshine and save money

on electricity bills with the **Schneider** Inverter.

Offer your customers a high-power hybrid inverter for converting solar energy output into usable AC electricity. **Schneider** Inverter supports a broad range of solar array sizes and comes with integrated MPPT channels, maximizing power production.
And scale it up to maximize energy autonomy by pairing with **Schneider** Boost batteries.

Key Benefits

- Integrated MPPT channels help maximize power output
- Supports wider MPPT voltage range
- Low conversion losses due to DC coupling
- Flexible installation - indoor or outdoor
- Fast commissioning through Wiser Home app
- Advanced features, including power shutdown and embedded Residual Current Monitoring Unit
- Compact design that requires minimum space
- Real-time energy monitoring from anywhere, with the easy-to-use Wiser Home app

> **Schneider** Inverter

- 3 x 1P models (5, 6 & 8 kW)
- 3 x 3P models (8, 10 & 14 kW)
- Up to 17kWp
- Up to 3 MPPTs
- Grid Tied Inverter
- 97.5% EU efficiency
- Natural air-cooled
- Smart dongle: Wi-Fi

Watch the video

Schneider Inverter

Characteristics

Schneider Inverter 1-phase:
HY5K1EU1 ; HY6K1EU1 ; HY8K1EU1

Schneider Inverter 3-phase:
HY8K3EU1 ; HY10K3EU1 ; HY14K3EU1

Standards

IEC 62109-1/-2
Grid connection: VDE-AR-N-4105
Emissions: IEC61000-6-1, IEC61000-6-3
RoHS, ReACH and WEEE directives

Spanish Certifications (1-Phase only):
RD1699, RD647, RD413, UNE 217002,
NTS V2.1

Schneider Inverter can be ordered
with Schneider Boost products

Please refer to p.30 for details of available kits

Hybrid Solar & Storage Inverter (IEC)

Conversion Efficiency

PV to Grid:
Schneider Inverter 1-phase:
HY5K1EU1: 96.7%
HY6K1EU1: 96.7%
HY8K1EU1: 96.7%

Schneider Inverter 3-phase:
HY8K3EU1: 97.1%
HY10K3EU1: 97.5%
HY14K3EU1 : 97.5%

Specifications

- Supported communication interfaces: RS485, WLAN
- Commissioning: Schneider Electric commissioning tool
- Transformer-less, ungrounded: Yes
- Max. short-circuit Current:
  - 20*2 Adc (HY5K1EU1, HY8K3EU1, HY10K3EU1, HY14K3EU1),
  - 20*3 Adc (HY6K1EU1, HY8K1EU1)
- DC ground-fault isolation detection: 100kΩ sensitivity
- Battery port reverse-polarity protection: No, only physical distinct dummy terminal
- Anti-island protection: Yes, integrated
- PV Port reverse polarity protection: No, only physical distinct dummy terminal
- Insulation resistance detection: >1 MΩ
- Ground-fault detection: Residual current monitoring
- AC short-circuit protection: Yes, integrated
- AC overcurrent protection: Yes, integrated
- Battery port overcurrent protection: No, but integrated in Schneider Boost
- Overheating protection: Yes, integrated
- DC surge protection: Yes, integrated
- AC surge protection: Yes, integrated
- AC overvoltage protection: Yes, integrated
- PV DC switch: Yes
- Battery switch: No, but integrated in Schneider Boost

Mechanical and Environmental Characteristics

- Conduit specification (Voltage/area)
  AC Side:
  1-P: 450 Vac/ 4 mm^2 ; 450 Vac/ 6 mm^2
  3-P: 450 Vac/ 4 mm^2
  Battery Side: 1000 Vdc / 4 mm^2
  PV Side: 1000 Vdc / 4 mm^2
- Dimensions (H x W x D): 400 x 484 x 177 mm
- Weight: 1-P: 18 kg ; 3-P: 19 kg
- Noise: <45 dBA
- Mounting: Wall-mounted/Brackets provided
- Cooling: Natural convection
- Operating temperature range: -25 to 60˚C
- Ingress protection rating: IP65
- Humidity: 0% - 95% RH
- Max. operating altitude: 1-P: 4000 m ; 3-P: 2000 m

Schneider Inverter

DC INPUT from solar panels and battery cabling

	Schneider Inverter 1-phase			Schneider Inverter 3-phase		
	HY5K1EU1	HY6K1EU1	HY8K1EU1	HY8K3EU1	HY10K3EU1	HY14K3EU1
INPUT - DC (PV)						
Max. PV Array Size	6900 Wp	9000 Wp	10000 Wp	12000 Wp	15000 Wp	17250 Wp
Max. MPPTs	2	3	3	2	2	2
Strings per MPPT	1	1	1	1	1	1
DC Oversizing-Allowed DC/AC Ratio	1.5	1.5	1.25	1.5	1.5	1.25
Rated Input Voltage	360 V			680 V		
MPPT operating voltage range	80 - 500 V			140-950 V		
Max. Open Circuit Voltage (Voc)	500 V			950 V		
Max. Input Voltage	600 V			1000 V		
Start-up Voltage	100-500 V			200-950 V		
Max. Input Current	13.5*2 Adc	13.5*3 Adc	13.5*3 Adc	13.5*2 Adc	13.5*2 Adc	13.5*2 Adc
Max. Input Short Circuit Current	20*2 Adc	20*3 Adc	20*3 Adc	20*2 Adc	20*2 Adc	20*2 Adc
Voltage Measurement accuracy	±3 V					
Peak Efficiency	97.4%	97.4%	97.4%	98.1%	98.4%	98.4%
EU Efficiency	96.7%	96.7%	96.7%	97.1%	97.5%	97.5%
PV Array Configuration	Ungrounded					
PV Over Voltage Category	II					
2-pole Disconnection	Yes					
INPUT - DC (Battery)						
Supported Battery Types	Schneider Boost					
Number of Batteries per Inverter	2 (2*6modules/7 to 40 kWh)					
Rated Port Voltage	400 V			750 V		
Port Voltage Range	360 - 480 V			690-900 V		
Max. Continuous Power	4680 W	5760 W	7920 W	8280 W	10350 W	13800 W
Max. Port Current	13 Adc	16 Adc	22 Adc	12 Adc	15 Adc	18 Adc
2-pole Disconnection	Yes					
Battery-to-Inverter Communication	[BMU]--CAN--[BCU]--CAN--[DCDC]--RS485--[INVERTER]					

Schneider Inverter

AC OUTPUT

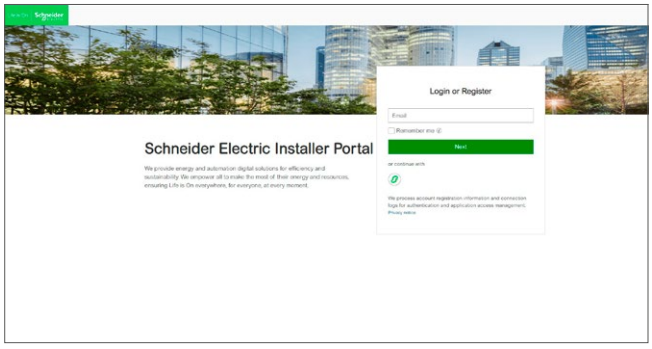
	Schneider Inverter 1-phase			Schneider Inverter 3-phase		
	HY5K1EU1	HY6K1EU1	HY8K1EU1	HY8K3EU1	HY10K3EU1	HY14K3EU1
OUTPUT- AC ON GRID						
Max. Apparent AC Power	5000 VA	6600 VA	8800 VA	8800 VA	11000 VA	13800 VA
Rated AC Active Power	4600 W	6000 W	8000 W	8000 W	10000 W	13800 W
AC Output Voltage Range	230 Vac			400/230 Vac		
AC Output Voltage — Line to Neutral Range	196-253			L-L:340-440		
AC Frequency Range (min. - nom. - max.)	50±5, 60±5 Hz			50±5 Hz		
Grids Supported	L+N+PE			3 / N / PE Three Phase (WYE with Neutral)		
Current Total Harmonic Distortion (THD)	<3%					
Power Factor	0.8 lead - 0.8 lag					
Utility Monitoring, Islanding Protection Country-configurable Thresholds	Yes					
AC Over Voltage Category	III					
Charge Battery from AC (if allowed)	Yes					
Typical Nighttime Power Consumption	<5 W					

Technical documentation

Please refer to bibliography in Appendix

Schneider Electric Installer Portal

Monitor performance of your install base and remotely diagnose incidents.



Schneider Electric Installer Portal is a cloud-based remote monitoring platform designed for seamless oversight and management of **Schneider** Home solar and storage sites, specifically tailored for Schneider inverters and batteries.

The Installer Portal simplifies maintenance and troubleshooting processes of solar and energy storage systems. With remote access to real-time information, it significantly improves installers' efficiency and accuracy, saving valuable time and effort.

It also facilitates collaboration and communication within teams, with customers, and with Schneider Electric. This fosters a better understanding of customer systems, allowing for improved interaction with Schneider Electric's customer care center for better support and faster issue resolution.

Moreover, the portal's intuitive design caters to installers of varying experience levels, accommodating all users.

Monitoring sites with the Installer Portal

Overview Page

Access real-time monitoring and quickly troubleshoot issues thanks to a dedicated page and two live widgets: power flow and devices. This page also includes power graphs, energy graphs, lifetime energy production and consumption data for comprehensive insights.

Dynamic Analysis

Empower installers with advanced troubleshooting capabilities through dynamic analysis. This feature allows installers to select additional parameters beyond those available on the overview page, enabling in-depth on-site issue analysis and resolution.

Events

Stay informed about site alarms and events.

Firmware

Stay updated on each device's firmware versions with our dedicative page.

Schneider Boost

Maximize the self-consumption of solar energy with the **Schneider** Boost battery's stackable architecture, which allows for flexible system expansion.

Schneider Boost works in conjunction with **Schneider** Inverter as a plug & play solution. Store excess photovoltaic energy in the battery for later use during nighttime or when electricity rates are high. The DC-Coupling architecture provides high system efficiency with fewer steps of power conversion.

Key Benefits

High Performance

- Excess PV power is stored directly in the battery using DC coupling
- High system efficiency with fewer steps of power conversion
- Recharge from solar and grid
- Cobalt-free and LFP chemistry
- Optimized for extended battery life
- Supports up to 6 modules to achieve 20 kWh
- Compatible with three-phase and single-phase inverters
- Rated for outdoor and indoor installation (non-hazardous environment)
- Easy installation without external wiring between battery modules

Smarter Energy Management

- Maximize self-consumption by using the battery when PV power is not available at night
- Extend battery runtime with optional load control
- Real-time energy monitoring with the Wiser Home app

› **Schneider** Boost

- Up to 6 x 3.4 kWh stackable
- LFP chemistry
- 10-years warranty

Watch the video

Schneider Boost

Characteristics

Controller Module

BATPMEU2

Battery Module

BATB3KEU3

References of packages:

Controller Module + 2 Battery Modules
BAT7KEU1
Controller Module + 3 Battery Modules
BAT10KEU1
Controller Module + 4 Battery Modules
BAT14KEU1
Controller Module + 5 Battery Modules
BAT17KEU1
Controller Module + 6 Battery Modules
BAT20KEU1

Standards

IEC 63056, IEC 62619, IEC 62477-1
Transportation: UN38.3
Emissions: EN61000-1/3

Spare parts

Please refer to p.12

Technical documentation

Please refer to bibliography in Appendix

Flexible Battery system (IEC)

Composition

Controller Module (BATPMEU2)
- Output voltage: 360 - 950 Vdc
- Input current: 25 A
- Dimensions (W x H x D): 798 x 335 x 218 mm
- Weight: 18.5 kg

Battery Module (BATB3KEU3)
- Nominal energy: 3.456 kWh
- Capacity: 60 Ah
- Nominal voltage: 57.6 Vdc
- Rated current: 25 Adc
- Quantity of cells (series / parallel): 54 (18 / 3) PCE
- Peak current: 60 Adc (for 10 seconds)
- Dimensions (W x H x D): 795 x 191 x 218 mm (H = 218 with fasten lug)
- Weight: 29±0.5 kg

Specifications of Battery Modules (IEC)

- Cycle Life: 10 year/ 3161 Cycles (25℃)
- Communication interfaces: RS485
- Required inverter: Schneider Inverter (HY5K1EU1, HY6K1EU1, HY8K1EU1, HY8K3EU1, HY10K3EU1, HY14K3EU1)
- Charging sources: Solar, Grid
- Warranty: 10 Years

Schneider Boost (IEC)	BAT7KEU1	BAT10KEU1	BAT14KEU1	BAT17KEU1	BAT20KEU1
Usable Energy	6200 Wh	9300 Wh	12400 Wh	15600 Wh	18600 Wh
Rated Power	2700 W	4050 W	5400 W	6750 W	8100 W
Modules	2S	3S	4S	5S	6S
DOD	90%	90%	90%	90%	90%
Nominal Energy	6.912 kWh	10.368 kWh	13.824 kWh	17.28 kWh	20.736 kWh
Working voltage of Battery modules	108.0 ~ 129.6 Vdc	162.0 ~ 194.4 Vdc	216.0 ~ 259.2 Vdc	270.0 ~ 324.0 Vdc	324.0 ~ 388.8 Vdc

Mechanical and Environmental Characteristics

- Mounting: Ground load-bearing
- Operating temperature: -20~55°C
- Storage temperature:
  - less than 1 month: -20 ~ -10°C and 45 ~ -50°C
  - less than 3 months: 35 ~ -45°C
  - less than 4.5 months: 25 ~ -35°C
  - less than 6 months: -10 ~ 25°C
- Altitude: 6562 / 2000 ft / m
- Enclosure protection: IP55
- Humidity: 5% ~95%
- Cooling: Natural convection
- Noise (at 1m distance): <45 dBA

Schneider Boost (IEC)	BAT7KEU1	BAT10KEU1	BAT14KEU1	BAT17KEU1	BAT20KEU1
Dimensions in mm (W x H x D)	799 x 767 x 218	799 x 959 x 218	799 x 1150 x 218	799 x 1342 x 218	799 x 1533 x 218
Weight	80±1 kg	109±1.5 kg	138±2 kg	167±2.5 kg	196±3 kg

Schneider Charge

Offer your customer an **attractive charging station** enabling **simple remote control** of their EV charging.

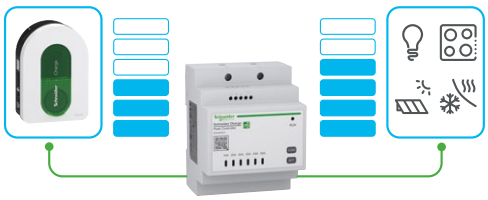
Schneider Charge is an easy charging station to install for electricians. You can put it on on any wall and with any cable entry, indoor or outdoor and it's compatible with any EV or PHEV.

This charging solution is dedicated to home charging, especially for single-family homes. It meets the need for charging control, for fully electric vehicles without compromising the owners' comfort.

Key Benefits

Schneider Charge Single family home charging station

- Aesthetic, functional and robust home EV charging solution
- Easy installation and wiring in minutes: 3 cabling options, wall spacers for uneven walls

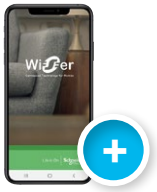


Schneider Charge Anti-tripping module

- Continuously adapts the charging power, taking home consumption and self-generated energy into account.

Wiser Home

- A smart App for the homeowners to control EV charging and more…



› **Schneider** Charge

- T2S socket up to 22 kW, combined 1P/3P
- Up to 7.4 kW 1P or 11 kW 3P, with 5 or 7 m attached cable with T2 connector
- OCPP 1.6J
- Single push-button for configuration
- Signal connectors for iMNx, DSO (Distribution System Operator - for Germany only)

Watch the video

Schneider Charge

Characteristics

Charging station offer

Charging power:
Attached cable version: 5 m or 7 m with T2 connector:
7.4 kW single-phase or 11 kW three-phase

T2S version:
7.4 kW 1-phase and 11 kW/22 kW 3-phase

- Maximum charging current can be adjusted from 6 A to 32 A
- T2 socket outlet with shutter
- Attached cable (5 m or 7 m) with T2 connector

Power supply network

- 230 V +/- 10% single-phase - 50-60 Hz for 7,4 kW charging stations
- 400 V +/- 10% three-phase - 50-60 Hz for 11 kW/22 kW charging stations
- Internal protection: 6 mA DC filter
- Suitable earthing systems: TT, TN-S, TN-C-S, IT/TT without Neutral (230 V AC only)

Mechanical and environmental characteristics

- Ingress protection code: IP55
- Impact protection code: IK10
- Operating temperature:

	T2 socket outlet	Attached cable
1P 32 A	-30...50°C	-35...50°C
3P 16 A	-30...55°C	-35...55°C
3P 32 A	-30...45°C	

- Storage temperature: -40°C to +85°C
- Relative humidity 5% to 95%
- Altitude < 2000 m
- Attached cable length: 5 m for versions supporting it

Dimensions

- Attached cable version: 352x244x107 mm
- T2S version: 352x244x117 mm
- Weight:

T2 socket outlet	Attached cable	
	1P + N	3P + N
3.3 kg	5m: 4.5 kg 7m: 5.3 kg	5m: 4.5 kg 7m: 5.2 kg

Installation

- Wall-mounting

Anti-tripping

- Energy management options: real-time maximum charging current control (with the addition of an external anti-tripping module)
- Power Line Carrier communication between the charging station and the anti-tripping module

Services offer

- Worldwide network of installers providing on-site installation and commissioning
- Worldwide customer care center

Commissioning

- eSetup mobile phone application or Wiser Home (according to your country)

Operation

Interoperable with EV charging applications
- Wiser Home (France, Germany, Spain, Portugal, Sweden, Norway, Finland, Denmark)
- Third-party EV charging applications*

CE

Certification

Schneider Charge has obtained the test certificate, establishing compliance with the IEC 61851-1 standard.

Standards

EN 61851-1 Ed3.0 (2019)
EN61000-6-1
EN61000-6-3
IEC61851-21-2

Compliant with RoHS/REACh regulations

* For third-party party application integration requests, please contact your local sales representative.

Schneider Charge

Charging station references

EVH5A22N2S

Schneider Charge					
References [1]	Number of phases	Type of socket	Power kW	Output current	Embedded protection
T2 with shutters					
EVH5A22N2S	1P/3P+N	T2S	(7.4)(11)/22	32A	with 6 mA DC filter
With attached 5 m[1] cable and T2 connector					
EVH5A07N2C5	1PH	-	7.4	32A	with 6 mA DC filter
EVH5A11N2C5	3PH	-	11	16 A	with 6 mA DC filter
With attached 7 m[1] cable and T2 connector					
EVH5A07N2C7	1PH	-	7.4	32A	with 6 mA DC filter
EVH5A11N2C7	3PH	-	11	16 A	with 6 mA DC filter

[1]References to be defined and local availability to be checked by Schneider Electric front offices.

Schneider Charge with TIC[2] (France offer)					
References	Number of phases	Type of socket	Power kW	Output current	Embedded protection
T2 with shutters					
EVH5A22N400F	1P/3P+N	T2S	(7.4)(11)/22	32A	with 6 mA DC filter

[2]For France only : TIC- Anti-tripping module connected to the energy meter (Linky)

Protections and options with **Schneider** Charge

Description			
Charging	Single-phase	Three-phase	
Rated Power - Current	7.4 kW - 32 A	11 kW - 16 A	22 kW - 32 A
Protection			
Circuit breaker (overcurrent) [1]	40 A Curve C	20 A Curve C	40 A Curve C
RCD (residual current) [1]	30 mA A-SI Type [2]	30 mA A-SI Type [2]	30 mA A-SI Type [2]
Under voltage tripping auxiliary [3][4]	iMNX	iMNX	iMNX

[1] References to be defined and local availability to be checked by Schneider Electric front offices.
[2] In accordance with the electrical installation standard HD 60364-7-722:2016. Refer to local regulations.
[3][4] To comply with IEC60364-5-53 regulation an undervoltage release tripping unit is mandatory to protect the EV charging station.

Accessory references

Schneider Charge EV cable holder

EVA5GH
Wall-mounted universal EV Cable Holder.

EVlink Cable for T2 and T2S charging station

To connect the car to the charging station. Available in different lengths with a T2 connector.

Charging cables	References
EVlink charging cables	
T2-T2 plug connector 32 A 1 Phase 5 m length	**EVP1CNS32122**
T2-T2 plug connector 32 A 1 Phase 7 m length	**EVP1CNL32122**
T2-T2 plug connector 32 A 1 Phase 10 m length	**EVP1CNX32122**
T2-T2 plug connector 32 A 3 Phase 5 m length	**EVP1CNS32322**
T2-T2 plug connector 32 A 3 Phase 7 m length	**EVP1CNL32322**
T2-T2 plug connector 32 A 3 Phase 10 m length	**EVP1CNX32322**

Schneider Charge Anti-tripping

Characteristics

1-phase Universal Peak controller:

EVA4HPC1
from 16 A to 50 A

EVA2HPC1
from 32 A to 100 A

3-phase Universal Peak controller:

EVA2HPC3
from 16 A to 50 A

Standards

EN 61326-1-2013
EN 61010-1-2010

Main function

- Schneider Charge Anti-tripping is a power-load management system that adapts the power supplied to charge the car continuously, taking home consumption into account*.
- The power availability is calculated by the Home Anti-tripping Module comparing the utility power limit, and the home consumption gathered by a current transformer positioned on the bottom of the main circuit breaker.
- For photovoltaic application it continuously adapts the charging power taking into account home consumption and self-generated energy (PV, wind, storage...).

* The Anti-Tripping Module limits the maximum power draw of the charging station, in some cases completely stopping the charging according to the power available in the electrical installation, especially if the home is equipped with a heat pump. Minimum recommendation: 25A 3P+N.

Pairing functionality

- Pairing functionality with Schneider Charge charging station. Up to 6 pairs can be used at the same time within PLC function range (200-meter power cable length).

Power supply network and electrical characteristics

- 220/230 V (+/- 10%) 50 Hz (+/- 10%)
- TT, TN, IT/TT without Neutral (230V AC only)
- Rated power 4W
- Overvoltage category: III, Pollution degree: 2
- Insulation degree: reinforced insulation

Mechanical and environmental

- Dimensions: 70.4 x 93.2 x 68.8 mm
- Weight: 196 g
- Mounting type: Top-hat rail mounting
- Nominal temperature: -30°C to +50°C

Settings

- Possible current value settings:
- 1P (EVA4HPC1): 16A, 20A, 25A, 32A, 40A and 50A
- 1P-HR (EVA2HPC1): 32A, 40A, 50A, 63A, 80A and 100A
- 3P (EVA2HPC3): 16A, 20A, 25A, 32A, 40A and 50A

Communication

- Communication with Schneider Charge charging stations via Power Line Carrier

Technical documentation

Please refer to bibliography in Appendix

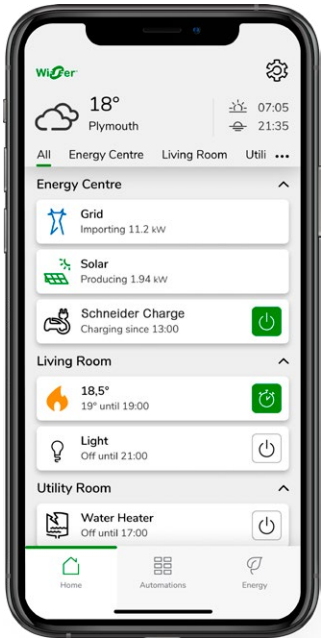
Wiser Home

Wiser Home

Make homes more sustainable, efficient and resilient with Wiser

Wiser isn't just about basic home functions and device control. It's a complete ecosystem that deciphers consumption patterns, manages home loads, reduces energy waste, and optimizes energy costs. By leveraging embedded artificial intelligence, Wiser optimizes your energy costs by prioritizing off-peak and solar production hours for heavy load operations, all while considering your specific needs. This advanced and comprehensive energy management experience will enable you to fully harness the potential of your solar installation.

Wiser Home: one app to rule them all



Wiser
Android/iOS

Main function

- Self-consumption optimization (with AI)
- Management of exports to grid
- Battery management
- Return on investment tracking

Smart EV charging

- Cost efficient charging modes (with AI)
- Anti-tripping management

Smart temperature management (heating/cooling)

- Room-by-room management
- Smart modes & heating insights
- Intelligent shutters control
- Water heater consumption optimization (with AI)

Energy flow and awareness

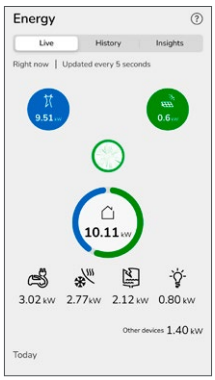
- Consumption live view and history
- Energy bill view
- Production and storage live view and history
- Solar savings overview
- Self-consumption and self-sufficiency insights

Watch the video

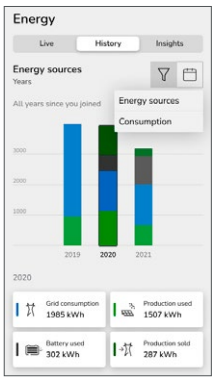
Wiser Energy Dashboard

Wiser is a modular and integrated Home Energy Management solution that focuses on reducing customers' energy bills and carbon footprint, while also maintaining power continuity without compromising on comfort, thanks to products and functions which are built to last.

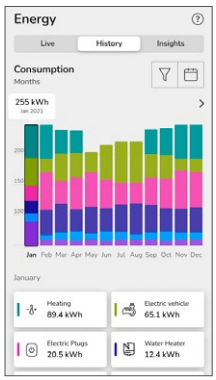
Thanks to Schneider Electric's long and proven expertise in energy management, you can transform your homes into a more sustainable, efficient, and resilient place to live.



Real-time view of the instant power flow (kW) - multi-sources

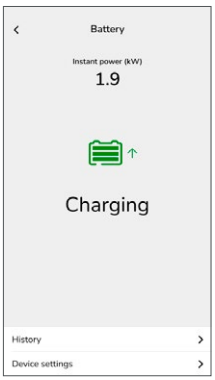


History of electricity produced, stored, used or sold (kWh)

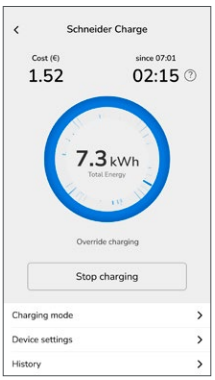


Energy consumption monitoring and history per load (kWh)

Solar energy production monitoring (kW)



Solar energy storage monitoring (kW)



Control, monitoring and scheduling of EV charging

Wiser Home

One app to commission all the solution

For single-home projects, the Wiser Home app provides the simplest commissioning process, getting the system ready for homeowners to use. The process is completed in just a few clicks: simply create an account, add the home and the rooms, add the gateway, and then pair Wiser with **Schneider** Home devices.
Finally, generate a handover code for your customers, granting them access to all the functionalities of their Wiser installation.

Select Wiser for your Home Automation and Energy Management projects

Integrated Home Automation & Energy Management solution

- Scalable, easy-to-install systems using a single app for commissioning (including offline).
- A complete system based on standard protocols for interoperability and longevity.

A flexible solution designed to grow with your customers and keep your business growing

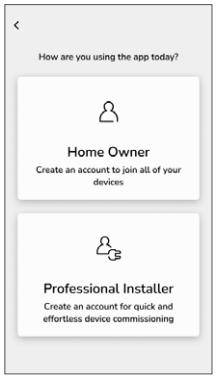
- Stay ahead by keeping your skills and knowledge up-to-date with our continuous training.
- Stand out from the competition by expanding your services and swiftly adapting to the ever-changing needs of your customers.

Dedicated support from a trusted partner

- Take advantage of tailored Programs for our Partners.
  Learn more about the Wiser Approved Installer program.

Watch the video

Download Wiser Home



Reduce installation and commissioning time with Wiser

A single application for commissioning Schneider Home products and other Wiser system devices.

Wiser
Android/iOS

Electrical Distribution

Electrical Distribution

Solar and PV Standards and Recommendations

Always refer to your local regulation when designing the electrical distribution of a solution.

The International Electrotechnical Committee (IEC) has defined a set of standards for EV infrastructure, covering devices, protection and electrical installation.

IEC 60364 -part 7-712 for Low Voltage electrical installations (Photovoltaic)

Requirements for special installations or locations - Solar photovoltaic (PV) power supply systems.

>Devices installed into the residential switchboard*
An MCB shall be installed in the switchboard.

According to local regulations it is highly recommended or mandatory, to install a surge protection device (SPD) to protect against surge voltage.
In case of cable lengths over 10 m, it is recommended to install a second SPD near the Schneider Inverter

>PV Box*
It is recommended to install a connection box with surge protection device as part of your installation, to protect the inverter and other devices in the event of a surge from the PV components.

*Product references to be defined with Schneider Electric front offices in compliance with local regulations.

Schneider Inverter

Electric Vehicle standards

Charging an electric vehicle means connecting to a powerful electricity supply. All electrical installations must be properly designed, constructed, and treated according to the IEC standards for EV installations.

IEC 60364 -part 7-722 for Low Voltage electrical installations (Electric Vehicles)

Requirements for special installations or locations - Supplies for electric vehicles

IEC 60364-part 7-722 requires electrical protective measures:
- **Protection against short-circuits and overloads with circuit breakers**
- **Protection against electric shocks and risks of electrocution with a 30 mA RCD.**
- **Protection against overvoltage with a surge protection device (SPD)**

In countries where the installation standard IEC/HD 60364-7-722 or equivalent local regulations apply, a RCD type B must be used instead of RCD type A-Si.

Schneider Charge

Learn more

White Paper
Safety measures for electric vehicle charging

Grid Metering

Grid metering is recommended to optimize the energy produced and consumed at home and to monitor the balance of electricity imported and exported.

- Optimize the power efficiency of homes
- Allocate energy costs to lower the cost of operations
- Monitor the energy imported and exported from/to the grid

Product references to be defined with your Schneider Electric front offices

Please refer to PowerLogic catalog

Appendix

List of Commercial References

Schneider Inverter

Characteristics		References
Schneider Home Solar and Battery Storage - Hybrid Inverter		**Schneider Inverter**
Schneider Inverter 1-phase		
	4.6KW, 1Phase, 230V AC	**HY5K1EU1**
	6KW, 1Phase, 230V AC	**HY6K1EU1**
	8KW, 1Phase, 230V AC	**HY8K1EU1**
Schneider Inverter 3-phase		
	8KW, 3Phase, 230V AC	**HY8K3EU1**
	10KW, 3Phase, 230V AC	**HY10K3EU1**
	14KW, 3Phase, 230V AC	**HY14K3EU1**

Schneider Boost

Characteristics			References
Schneider Home Solar and Battery Storage			**Schneider Boost**
Battery Controller and Battery Module			
		Battery Module 3.4 kW	**BATB3KEU3**
		Battery Controller	**BATPMEU2**
Schneider Boost - Assemblies			
Controller Module	+ 2 Battery Modules	Battery Assembly, 6.9 kWh	**BAT7KEU1**
	+ 3 Battery Modules	Battery Assembly, 10.36 kWh	**BAT10KEU1**
	+ 4 Battery Modules	Battery Assembly, 13.8 kWh	**BAT14KEU1**
	+ 5 Battery Modules	Battery Assembly, 17.2 kWh	**BAT17KEU1**
	+ 6 Battery Modules	Battery Assembly, 20.7 kWh	**BAT20KEU1**

Schneider Home Assemblies

Title	References
Description	
Definition of the product	**XXXX**
Definition of the product	**XXXX**
Definition of the product	**XXXX**
Definition of the product	**XXXX**
Definition of the product	**XXXX**
Definition of the product	**XXXX**

List of Commercial References

Schneider Charge

Characteristics		References
		Schneider Charge
Charging stations with socket outlet		
	7.4 kW (1P32A),11 kW (3P 16A), 22 kW (3P 32A)	**EVH5A22N2S**
Charging stations with 5 m attached cable and T2 connector		
	7.4 kW (1P - 32 A)	**EVH5A07N2C5**
	11 kW (3P - 16 A)	**EVH5A11N2C5**
Charging stations with 7 m attached cable and T2 connector		
	7.4 kW (1P - 32 A)	**EVH5A07N2C7**
	11 kW (3P - 16 A)	**EVH5A11N2C7**

Characteristics		References
		Schneider Charge with TIC*
Charging stations with socket outlet		
	7.4 kW (1P32A),11 kW (3P 16A), 22 kW (3P 32A) (1P/3P+N)	**EVH5A22N400F**

*Only for France

Accessories	References
Peak controller	
1 Phase anti-tripping module (peak controller from 16 A to 50A)	**EVA4HPC1**
1 Phase anti-tripping module (peak controller from 32 A to 100 A)	**EVA2HPC1**
3 Phase anti-tripping module (peak controller from 16A to 50A)	**EVA2HPC3**
Gun Holder	
Schneider Charge Gun Holder	**EVA5GH**

Charging cables	References
EVlink charging cables	
T2-T2 plug connector 32 A 1 Phase 5 m length	**EVP1CNS32122**
T2-T2 plug connector 32 A 1 Phase 7 m length	**EVP1CNL32122**
T2-T2 plug connector 32 A 1 Phase 10 m length	**EVP1CNX32122**
T2-T2 plug connector 32 A 3 Phase 5 m length	**EVP1CNS32322**
T2-T2 plug connector 32 A 3 Phase 7 m length	**EVP1CNL32322**
T2-T2 plug connector 32 A 3 Phase 10 m length	**EVP1CNX32322**

Recommended electrical protections, metering and other devices

Title	References
Description	
Definition of the product	**XXXX**
Definition of the product	**XXXX**
Definition of the product	**XXXX**
Definition of the product	**XXXX**
Definition of the product	**XXXX**
Definition of the product	**XXXX**

Bibliography

Schneider Home Documentation

Document	Languages	References[1]
Schneider Charge		
Product data-sheet	EN	**998-22833864**
Installation guide	EN / FR / DE / ES / IT	**PKR9096301**[1]
Commissioning guide	EN / FR / DE / ES / IT	**PKR9545101**[1]
Anti-tripping module 1P - Installation guide	EN / FR / ES / IT	**BQT5080501**[1]
Anti-tripping module 3P - Installation guide	EN / FR / DE / ES / IT	**BQT5080401**[1]
EV cable holder - Installation guide	EN	**PKR9458701**
Schneider Inverter		
Product datasheet - 3P	EN	**998-22861438**
Product datasheet - 1P	EN	**998-22861437**
Schneider Inverter Quick Guide for Germany	EN / DE	**TME47602**[1] **/ TME47602-005**[1]
Schneider Inverter Quick Guide for Spain	EN / ES	**TME47603**[1] **/ TME47603-006**[1]
Wireless LAN Smart Dongle Guide	EN / DE / ES	**TME34287 / TME34287-005 / TME34287-006**
Schneider Inverter Installation Guide (1P)	EN / ES	**TME38690 / TME38690-006**
Schneider Inverter Installation Guide (3P)	EN / DE	**TME26990 / TME26990-005**
Schneider Boost		
Product datasheet	EN	**998-22861439**
Schneider Boost Quick Guide for Germany	EN /DE	**TME47604**[1] **/ TME47604-005**[1]
Schneider Boost Quick Guide for Spain	EN / ES	**TME47605**[1] **/ TME47605-006**[1]
Schneider Boost Installation and Operation Guide	EN / DE / ES	**TME27412 / TME27412-005 / TME27412-006**
Wiser Home		
Wiser Home System User Guide	EN / FR	**View online**
Wiser Catalog	EN	**View online**

[1] Delivered with the product

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