

Your life. Your energy.

One of a kind:

100% usable
capacity
guaranteed
for 10 years.



SENECH.Home V3

hybrid & hybrid duo

Technical data sheet



SENECH

Technical data

SENEC.Home V3 hybrid (hybrid duo)

2.5

5.0

7.5

10.0

General technical data

Dimensions (H x W x D)	1,135 mm x 535 mm x 535 mm			
Total weight (hybrid duo)	83 kg (93 kg)	105 kg (115 kg)	127 kg (137 kg)	149 kg (159 kg)
Battery weight	22 kg per battery module			
Compatible grid type	TN/TN-C/TN-S/TT systems			
Number of phases (hybrid duo)	Three-phase measurement, single-phase (two-phase) power output, three-phase compensation			
Optimal/permitted operating temperature	10 °C to 25 °C / 5 °C to 40 °C			
Relative humidity	10 % to 85 % (non-condensing)			
Storage temperature	-20 °C to 50 °C (case) and -10 °C to 50 °C (battery module) at 45 % to 85 % humidity			
Ingress protection	IP20			
Backup power-capable*	Yes			
Communication	Ethernet			
Interfaces	display, mein-senec.de (user portal), SENECA.App, Amazon Echo, Google Assistant			

Performance data

Battery module manufacturer	BMZ Group (Germany)			
Battery technology	Lithium ion technology <small>Battery module type NCA: lithium nickel cobalt aluminium oxide (NCA) Battery module type NMC: lithium nickel manganese cobalt oxide (NMC) Battery module type 250B K30 T03: lithium nickel cobalt aluminium oxide (NCA)</small>			
Battery DC voltage (per battery module type)	50.4 V (NCA) / 51.38 V (NMC) / 51.1 V (250B K30 T03)			
Number of cycles	12,000			
Initial usable storage capacity**	2.5 kWh	5.0 kWh	7.5 kWh	10.0 kWh
Max. charge power (DC)***	625 W	1,250 W	1,875 W	2,500 W
Max. discharge power (DC)***	1,250 W	2,500 W	3,750 W	3,750 W
Max. charge/discharge current (DC)	12 A / 24 A per battery module			
Max. hybrid power (hybrid duo)	7,100 W (11,700 W)			
Max. power output (AC) (hybrid duo)	1x 4,600 W (2x 4,600 W)			
Max. PV input voltage (DC)	750 V			
Number of MPP inputs (hybrid duo)	2 (3)			
Max. PV input current (DC) (per MPP)	20 A			
Max. PV short-circuit current (DC) (per MPP)	23 A			
MPP voltage range	75 V to 650 V			
Max. efficiency	97.4 %			

Certification & standards

CE marking & EC compliance	EMC Directive 2014/30/EU [EN 61000-6-1:2016 EN 61000-6-3:2007 + A1:2011] Low Voltage Directive 2014/35/EU [EN 62109-1:2010; EN 62109-2:2011 EN 62040-1:2008 + A1:2013] RoHS 2011/65/EU
VDE Application Rules	VDE-AR-N 4105:2018 VDE-AR-E 2510-2:2021 VDE-AR-E 2510-50:2017
Battery safety	IEC 62619:2017 UN 38.3
Backup power/backup power mode	EN 62109-2:2011

Safety

Deep discharge protection	Integrated battery management system Auto. Safety charge from the grid
Overtemperature protection	Automatic power regulation

Warranty & monitoring

Product warranty <small>(Terms of warranty available at senec.com)</small>	10 year manufacturer's warranty, extendable up to 20 years against a fee
Monitoring	Free of charge, via mein-senec.de on PC/laptop/smartphone or via the Android and iOS app
Remote maintenance	Automatic software updates & diagnosis

SENEC.Home is a smart, connected product. It requires a permanent internet connection and a SENECA user account. When you purchase SENECA.Home, you therefore also enter into a free service contract with SENECA GmbH.

For more information, see www.senec.com/vertragsbedingungen.

Battery modules can only be retrofitted for up to 12 months after commissioning. All statements without guarantee. Information subject to change. Errors and omissions excepted.

* The optional backup power mode is only available with SENECA.Backup Power (pro). Extra costs for additional materials and installation may apply.

** Depends on charging and discharging conditions e.g. temperature and usage frequency.

*** Power reduction possible depending on temperature and state of charge.

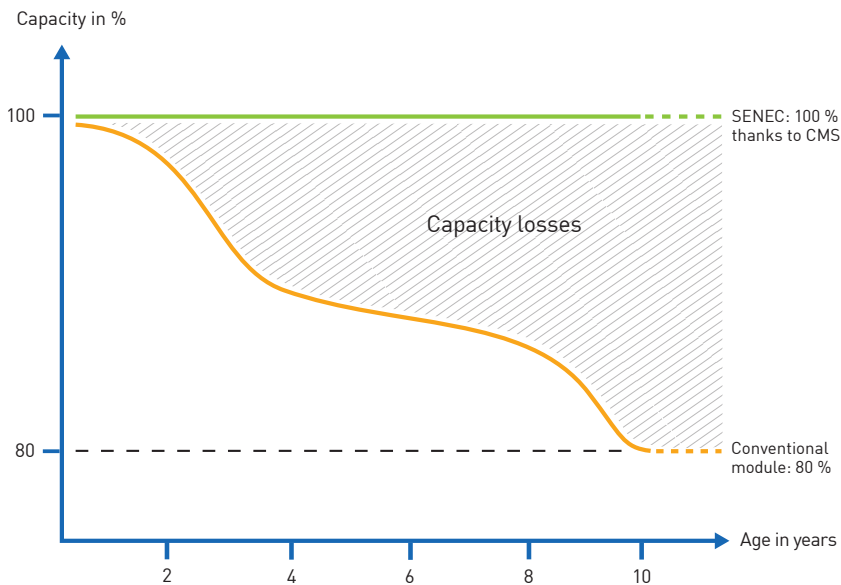


Best in test:

SENEC warranty comes out on top.

The magazine PHOTON teamed up with a legal expert to evaluate the warranty terms offered by 24 suppliers of energy storage systems. Their top pick? The energy storage systems from SENEK.

A real game-changer: the SENEK capacity management system



Developed in-house, our **capacity management system** is based on a combination of new cell technology, a specially adapted software control system and reserve capacity within the cells. Thanks to this fantastic system, battery capacity remains consistently high over a 10 year period – **Guaranteed**.

SENEK.Home V3 hybrid & hybrid duo:

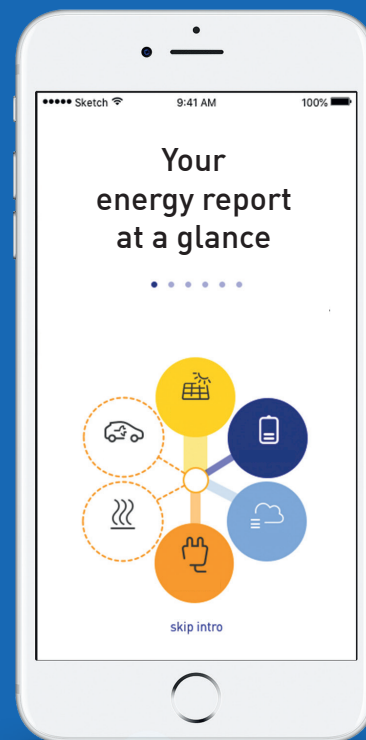
For maximum efficiency, maximum compatibility and maximum flexibility.

Hybrid system
AC | DC

- hybrid** • Integrated hybrid inverter: PV (transformerless) and battery
- hybrid duo** • With additional PV inverter
- 100 % usable capacity guaranteed for 10 years thanks to capacity management system
- Battery and storage system technology made in Germany
- Maximum efficiency thanks to up to three independent MPP trackers – ideal for east and west-facing or shaded locations
- Modular, easily compatible and smart grid ready design
- In-depth monitoring, free of charge, using online or app-based solution
- Simple installation with limited space requirement
- Suitable for use with any solar installation, combined heat and power plant or small wind turbine
- Optional backup power package SENEK.Backup Power (pro) available

All your data at your fingertips.
Thanks to the **SENEC.App**.

Keep your energy use on track,
no matter where you are:
Simply open up the homepage of
the intuitive SENEK.App to get an
immediate overview of your entire
system.



Contact your local SENEK partner for a personalised quote.

Your local technical partner:

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