Technical data

Home power stations of the X series All In One





INFINITY

Battery retrofitting
for 5 years



Technical data

S10 X

Generation

Max. recommended DC power (W)	18,000		
Min. MPP voltage (V)	250		
Max. MPP voltage (V)	850		
Max. DC input voltage (V)	1,000		
Max. DC current per MPP tracker (A)	27		
Max. PV short-circuit current per MPP tracker (A)	31		
Independent MPP trackers	2		
Input connection technology	4 x MC4 connectors		
Compatibility with module optimisers	Yes		
AC storage system – max. input power (W)	All E3/DC home power stations are hybrid storage systems 1)2)		
Output			
Max. AC rated power (230 V, 50 Hz) (W)	12,000 (depending on PV size)		
Max. apparent output power (VA)	13,500		
AC rated voltage L / N / PE (V)	3 x 230		
AC rated frequencies (Hz)	50		
Max. output current (per phase) (A)	20		
Feed-in phases / connection phases	3/3		
Technology	Transformerless		
Cos (phi)	-0.9 +0.9		
General data			
Max. system efficiency incl. battery (%)	> 90		
EU efficiency of PV power inverter (%)	> 95		
AC short-circuit-proof / earth-fault monit.	Yes / yes		
Approvals	VDE-AR-N 4105:2018-11, VDE V 0124-100:2020-06, TOR Erzeuger, C Guideline R25:2020-03-01, CE, UN38.3, OVE E 8101:2019-01-01		
Permissible / recommended ambient temperature	+5 to +35 / +15 to +25		
(°C) Max. relative humidity (%)	85		
Max. operating altitude (mamsl)	2,000		
Protection class / cooling	IP20 / fan according to output		
Data interface	RS232 / USB / Ethernet / CAN		
Dimensions W x H x D (mm)	HOZOZ / GOB / Ethernot / G/TIV		
S10 X	610 (incl. battery cabinet 1,135) x 1,410 x 440		
COMPACT design variant for S10 X 10)	590 x 1,200 (incl. battery cabinet 1,710) x 500		
Display	7" TFT display		
Energy management	Integrated		
Operating modes			
DC operation	Yes		
AC storage system	Yes		
Emergency current supply (rechargeable using solar energy)	Yes 3) (3ph backup power primarily for light and comfort)		
	Yes		

Technical data

S10 X Storage

S10 X	-	-	18 21	
COMPACT design variant for S10 X 10)	10	14	-	
Usable battery capacity (kWh) 4)	8.25	11.2	17.4 20.6	
Rated power, charging / discharge (kW) ²⁾	4.5	6	9 11	
Spatially separable battery system (cable length 10 m)	Yes ⁵⁾	Yes ⁵⁾	Yes ⁵⁾	
Battery technology	Lithium-ion, certified as intrinsically safe according to IEC62619			
Weight of batteries (kg)	Max. 11 per kWh			
E3/DC temperature regulation	Yes			
Battery extension or battery retrofitting	Typ. up to 2.8	-	Typ. up to 20.6	
up to 1 year after installation to kWh (usable) 6)	additionally		additionally	
INFINITY retrofitting up to 5 y. after inst. (chargeable	Typ. up to 11.2	Typ. up to 11.2	Typ. up to 20.6	
conversion of the system necessary) to kWh (usable) 6)	additionally	additionally	additionally	
Battery capacity warranty 7)	10 years on 80 % of the usable battery capacity			

Ready for future

10	14	18 21	
Freely selectable between 0 % (non-EEG operation) and 100 %			
System is compatible with future products ⁸⁾			
System is prepared			
System is prepared			
ModBUS(TCP), KNX, CAN-I/O, xComfort			
3ph backup power (home) for light and comfort consumption			
Yes, via battery management 9)			
4.5	6	9 11	
Conditionally possible and to be checked with the manufacturer of the			
inverters / motors as regards starting current and typical, desired power			
SG Ready board (incl.), ModBUS(TCP) (incl.), xComfort actuators (optional)			
KNX, myGEKKO, Loxone, xComfort			
155 / 130			
	Freely selectable be System is System is ModBU: 3ph backup power Yes 4.5 Conditionally possible inverters / motors as res	Freely selectable between 0 % (non-EEG of System is compatible with future System is prepared System is prepared ModBUS(TCP), KNX, CAN-I/O, 3ph backup power (home) for light and conversely yes, via battery management 4.5 6 Conditionally possible and to be checked with inverters / motors as regards starting current are SG Ready board (incl.), ModBUS(TCP) (incl.), xCd KNX, myGEKKO, Loxone, xC	

The output and the temporal availability of the backup power function can be limited due to software updates, power inverter grid conditions and external framework conditions (i.e. home load, generation, hardware defect, temperature, battery calibration). Battery calibration / discharge is also carried out weekly, usually at night, with own current as per the requirements of the battery manufacturer. Further important information concerning backup power operation can be found in the "Backup power" flyer at e3dc.com/en/infocentre/#Downloads.

- The AC charging capacity corresponds to a maximum of the rated power / peak power of the battery system.
- The actual power is dependent on the state of the system and the temperature, and can be lower depending on the PV and weather / grid conditions.
- Additional motor switch required for the backup power function subject to a surcharge. Consumers with non-sinusoidal and excessively high power must be shut off if necessary.
- 4) The warranty refers to 80 % of this usable capacity. The specified usable capacity corresponds to the energy volume that can be discharged for consumption. This value already takes into account an additional capacity reserve at system level in order to ensure full availability even in adverse weather conditions. The usable capacity is measured in a defined, realistic reference cycle on the battery system. The usable capacity can deviate from the specified value in real operation.
- To be specified on ordering; additional charge for additional cables and doors.

- Depending on availability / battery technology; equipment and installation space check necessary; not quaranteed.
- Within the warranty period on adherence to the warranty conditions.
- ⁸⁾ V2H option is not a legal entitlement of the customer. It is specifically dependent on future vehicles, interfaces / grid guidelines and regulations.
- Exact maintenance of the backup power reserve necessitates regular, usually weekly, calibration of the battery state of charge. During calibration, the storage system is completely discharged exclusively via home consumption. If home consumption is not sufficient, the process is cancelled and repeated at a later point in time. If necessary, the immediate restoration of the backup power reserve is also carried out with mains electricity.
- ¹⁰⁾ Identical to the S10 X in terms of design within the meaning of the normative approvals. The service life of the batteries is dependent on the installation and operating conditions. The terms and conditions of HagerEnergy GmbH apply.
 Internet connection required for remote maintenance and checking the yield.



HagerEnergy GmbH Ursula-Flick-Strasse 8 D-49076 Osnabrück

P +49 541 760 268 0









(f) (ii) (ii) e3dc.com

Your E3/DC partner







- + Wallbox
- + Inverter
- + HEMS

