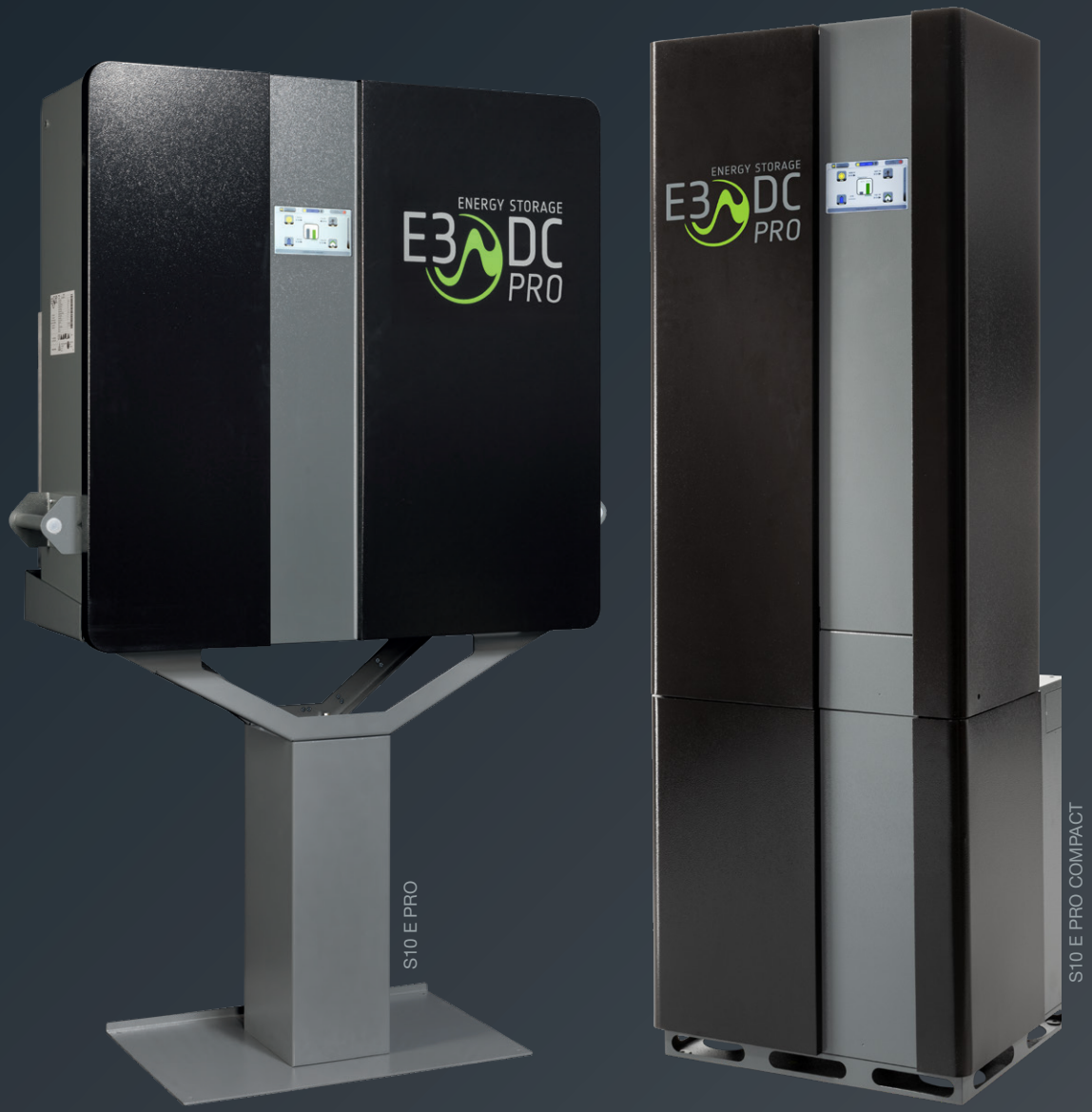
Technical data

Home power stations of the PRO series

All In One



INFINITY
Battery retrofitting for 5 years

ENERGY STORAGE
E3 DC

A member of Hager Group

Technical data

S10 E PRO & S10 E PRO COMPACT
Generation

Input	
Max. recommended DC power (W)	20,000
Min. MPP voltage (V)	250
Min. MPP voltage for AC rated power (V)	500
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 230 V (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 (%)	> 88
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, OVE Guideline R25:2020-03-01, CE, UN38.3, OVE E 8101:2019-01-01
Permissible / recommended ambient temperature (°C)	+5 to +35 / +15 to +25
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) S10 E PRO S10 E PRO COMPACT	 1,030 x 1,020 (incl. pedestal 1,810) x 446 590 x 1,200 (incl. battery cabinet 1,980) 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)
Hybrid (DC + AC)	Yes

Technical data

S10 E PRO & S10 E PRO COMPACT
Storage

S10 E PRO	**13**	**19.5**	**–**	**–**
S10 E PRO COMPACT	**13**	**19.5**	**24**	**30**
Usable battery capacity (kWh) [4]	**11.7**	**17.5**	**23.4**	**29.2**
Battery cabinet	Integrated			
External battery cabinet	With extension / retrofitting only			
Rated power, charging / discharge (kW) [2]	6	7.5	9 [2a]	9 [2a]
Battery technology	Lithium-ion, certified as intrinsically safe according to **IEC62619**			
Total weight of batteries (kg)	Approx. 90	Approx. 135	Approx. 180	Approx. 225
E3/DC temperature regulation	Yes			
Battery extension or battery retrofitting up to 1 year after installation to kWh (usable) [5]	Typ. up to 17.5 additionally	Typ. up to 17.5 additionally	Typ. up to 23.4 additionally	Typ. up to 17.5 additionally
INFINITY retrofitting up to 5 years after installation to kWh (usable) [5] [6]	Typ. up to 17.5 additionally	Typ. up to 17.5 additionally	Typ. up to 17.5 additionally	Typ. up to 17.5 additionally
Battery capacity warranty [7]	10 years on 80 % of the usable battery capacity			

Ready for future

System and options	**13**	**19.5**	**24**	**30**
Feed-in	Freely selectable between 0 % (non-EEG operation) and 100 %			
Vehicle2Home interface (use of electric car as storage system)	System is compatible with future products [8] System is prepared			
Optional overvoltage protection with monitoring	System is prepared			
Ext. interfaces	ModBUS(TCP), KNX, CAN–I/O, xComfort			
Backup power type [3]	3ph backup power (home) for light and comfort consumption			
Backup power reserve (adjustable)	Continuously possible on operation with 2 battery sets [9]			
Max. rated power of battery in backup power (kW) [2] / rechargeable using solar energy (check starting currents / loads)	6	7.5	9 [2a]	9 [2a]
Backup power operation of motors, pumps and heat pumps [2]	Conditionally possible and to be checked with the manufacturer of the inverters / motors as regards starting current and typical, desired power			
SG Ready (for heat pumps, etc.)	SG Ready board (incl.), ModBUS(TCP) (incl.), xComfort actuators (optional)			
Home automation	KNX, myGEKKO, Loxone, xComfort			
Max. system weight without batteries (kg) S10 E PRO / S10 E PRO COMPACT	156 / 145			

The output and the temporal availability of the backup power function can be limited due to software updates, power inverter grid testing and grid conditions and external framework conditions (i.e. home load, generation, hardware defect, temperature, battery calibration). The PRO series has two separate battery sets and can permanently maintain a backup power reserve, although each battery set is also calibrated each week with its own current. Further important information concerning backup power operation can be found in the “Backup power” flyer at e3dc.com/infocenter/#Downloads.

1) The AC charging capacity corresponds to a maximum of the rated power / peak power of the battery system.
2) 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.
2a) On connection of at least two modules per battery circuit.
3) 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.
5) Depending on availability / battery technology; equipment and installation space check necessary; not guaranteed.
6) On operation of two battery sets, INFINITY retrofitting necessitates relocating the existing battery sets of identical size to a battery tracker.
7) 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.
9) Physically realised through the design of the PRO system. Independent of battery management.

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.

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Your E3/DC partner