

## Technical data

# S10 E PRO



battery can  
be retrofitted  
for 5 years

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## S10 E PRO Production

input	S10 E PRO home power station <sup>1)</sup>
max. recommended DC power (W)	15,000
min. MPP voltage (V)	250
min. MPP voltage for AC nominal power (V)	500
max. MPP voltage (V)	850
max. DC input voltage (V)	1,000
max. DC current per MPP tracker (A)	18 <sup>2)</sup>
independent MPP tracker	2
component connection point gateway	4x MC4 plug
AC storage – max. power input (W)	9,000

output	S10 E PRO home power station <sup>1)</sup>
max. AC nominal power (230V, 50Hz) (W)	12,000 (depending on the PV size)
max. output power (VA)	13,800
AC nominal voltage L/N/PE (V)	3x 230
AC nominal frequency (Hz)	50
max. output current (per phase) (A)	20
feed in phases/connecting phases	3/3
technology	transformerless
cos (phi)	- 0.9 ... + 0.9

general information	S10 E PRO home power station <sup>1)</sup>
max. round trip efficiency incl. battery (%)	> 88
solar inverter EU efficiency (%)	> 95
AC short circuit safety/ground controlling	yes/yes
certifications	according to DIN 0126-1-1 or VDE-AR-N 4105, ÖVE/ÖNORM E 8001-4-712:2016 11 01/TOR D4 2016-07, CE, UN38.3
temperature operating range (°C)	+5 up to +35
protection class/cooling	IP20/cooler due to performance
data interfaces	RS232/USB/Ethernet/CAN
size WxHxD (mm)	1030x1020x446
size WxHxD incl. stand (mm)	1030x1810x460
display	7" TFT display
energy management	integrated

operating modes	S10 E PRO home power station <sup>1)</sup>
DC mode	yes
AC energy storage	yes
emergency power supply (solar rechargeable)	yes <sup>3)</sup> (3ph emergency power supply)
hybrid (DC+AC)	yes

# Technical data

## S10 E PRO Storage

battery system	S10 E PRO home power station <sup>1)</sup>		
	13	19.5	26
battery converter constant power / peak performance <sup>b)</sup>	6/6	7.5/9	9/12
battery technology	lithium-ion		
total battery weight (kg)	up to 85	up to 125	up to 170
efficiency (%)	up to 98%		
temperature management by E3/DC	yes		
battery capacity (kWh)	13	19.5	26 <sup>b)</sup>
depth of discharge (%)	90 %		
battery retrofitting	retrofitable up to max. 5 years <sup>7)</sup> , depending on availability		
to kWh	19.5/26-39 <sup>3b)</sup>	26-39 <sup>3b)</sup>	32,5-39 <sup>3b)</sup>
battery ageing	10 years on 80 % of the battery capacity <sup>6)</sup>		

## ready for future

system and options	S10 E PRO home power station <sup>1)</sup>		
	13	19.5	26
feed-in	freely selectable between 0 % (non-EEG operation) and 100 %		
Vehicle2Home interface	system is compatible with future products <sup>8)</sup>		
(use of electric car as storage)	system is prepared		
option overvoltage protection with monitoring	system is prepared		
ext. interface	ModBUS(TCP), KNX, CAN-I/O, xComfort		
type of emergency power <sup>3)</sup>	3ph emergency power supply (house)		
max. emergency battery power (kW) <sup>4)</sup> / solar rechargeable (check starting currents/loads)	6	9	12
additional emergency solar power (kW) for flexible loads (heat pump/battery)	up to the installed PV capacity		
emergency power reserve (adjustable)	permanently available <sup>9)</sup>		
SG ready (e.g. for heat pumps)	system is prepared (option can be ordered)		
smart home automation	KNX, myGEKKO, Loxone, xComfort		
system weight without batteries (kg)	110		
incl. bracket/incl. stand (kg)	120/140		

Performance and availability of the solar emergency power function can be derated or may be off due to software updates, grid inverter and external conditions (e.g. house load, generation, hardware defect, temperature, battery calibration). The PRO series has 2 independent battery sets and maintains the battery reserve continuously despite the calibration of each battery management system. You will find further important information about backup/emergency power operation in the "Emergency power in the S10 home power station" information sheet at <https://www.e3dc.com/en/infocenter/#Downloads>

- <sup>1)</sup> identically constructed according to VDE-ARN-4105 to type S10 E PRO  
<sup>2)</sup> if exceeded, please check the design tool  
<sup>3)</sup> additional switch for emergency power function with additional surcharge required  
<sup>3b)</sup> more than 19,5 kWh require external battery cabinets  
<sup>4)</sup> actual battery converter performance/battery performance depends on battery configuration, charge status and temperature  
<sup>5)</sup> current example values as of print date The module capacity will change, but E3/DC can offer between 1-3 modules for battery upgrades.  
<sup>6)</sup> within the warranty time adhered to warranty conditions  
<sup>7)</sup> from date of installation

- <sup>8)</sup> The customer does not have a legal claim to the V2H option. It depends specifically on future vehicles and their interfaces as well as on future grid guidelines and regulations.  
<sup>9)</sup> Physically implemented via the design of the PRO system. Independent of battery management. The reserve does not require additional electricity during the year.

The battery lifetime depends on the installation and operating mode conditions.  
 Terms and conditions of E3/DC GmbH apply. DSL connection for remote maintenance and energy management required.



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Your E3/DC partner