

Technical data

S10 E

INFINITY home power station



battery can
be retrofitted
for 5 years

ENERGY STORAGE
E3DC

Technical data

S10 E Production

input	S10 E home power station ¹⁾
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 ²⁾
independent MPP tracker	2
component connection point gateway	4x MC4 plug
AC storage – max. power input (W)	3,000

output	S10 E home power station ¹⁾
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 home power station ¹⁾
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 home power station ¹⁾
DC mode	yes
AC energy storage	yes
emergency power supply (solar rechargeable)	yes ³⁾ (3ph emergency power supply)
hybrid (DC+AC)	yes

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S10 E Storage

battery system	S10 E INFINITY home power station ¹⁾			
	6.5	9.75	12	18
battery converter constant power / peak performance ^{b)}	3/3	4.5/4.5	4.5/4.5	4.5/4.5
battery technology	lithium-ion			
total battery weight (kg)	up to 60	up to 90	up to 85	up to 125
efficiency (%)	up to 98			
temperature management by E3/DC	yes			
battery capacity (kWh)	6.5	9.75	12	18
depth of discharge (%)	90			
battery retrofitting	up to 1 year retrofittable ⁷⁾ , depending on availability			
to kWh	13	13	18/24-36 ^{3b)}	24-36 ^{3b)}
battery ageing	10 years on 80 % of battery capacity ⁵⁾			

ready for future

system	S10 E INFINITY home power station ¹⁾			
	6.5	9.75	12	18
feed-in	freely selectable between 0 % (non-EEG operation) and 100 %			
battery retrofitting INFINITY	depending on battery type, up to 5 years ⁷⁾ up to additional 18 kWh ^{3b) 5)} for future needs and more flexibility, depending on availability			
Vehicle2Home interface (use of electric car as storage)	system is compatible with future products ⁸⁾ system is prepared			
option overvoltage protection with monitoring	system is prepared			
ext. interface	ModBUS(TCP), KNX, CAN-I/O, xComfort			
type of emergency power ³⁾	3ph emergency power supply (house)			
max. emergency battery power (kW) ⁴⁾ / solar rechargeable (check starting currents/loads)	3	4,5	6	6
additional emergency solar power (kW) for flexible loads (heat pump/battery)	up to the installed PV capacity			
emergency power reserve (adjustable)	yes, via battery management ⁹⁾			
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). A weekly battery calibration discharges the battery according to battery management system requirements. 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>

¹⁾ identically constructed according to VDE-ARN-4105 to type S10 E

²⁾ if exceeded, please check the design tool

³⁾ additional switch for emergency power function with additional surcharge required

^{3b)} additional battery cabinet necessary (check space requirements)

⁴⁾ actual battery converter performance/battery performance depends

on battery configuration, charge status and temperature
⁵⁾ current example values as of print date The module capacity will change, but E3/DC can offer between 1-3 modules for battery upgrades.

⁶⁾ within the warranty time adhered to warranty conditions

⁷⁾ from date of installation

⁸⁾ The customer does not have a legal claim to option V2H. Depends specifically on future vehicle interfaces/grid guidelines and regulations.

⁹⁾ A lithium battery must be calibrated every 7 days. The emergency power reserve is not available during this time. The time can be set. 1 kWh reserve requires approx. 52 kWh per year (solar + grid).

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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