



## Products

for private- and business clients





## Energy supply self defined

E3/DC is offering far more than just a regular storage unit  
and delivers the most innovative solution  
for your own energy management.

# S10 – The home power station

The  
ORIGINAL

## Perfect

- integrated production (DC-technology)
- easy and quick to install
- complete modular expandability
- intelligent energy management system
- real time remote control of every component

## Up to date

- software updates including new features via remote control
- latest information about the E3/DC-portal
- always up to date for highest sustainability

## Unique

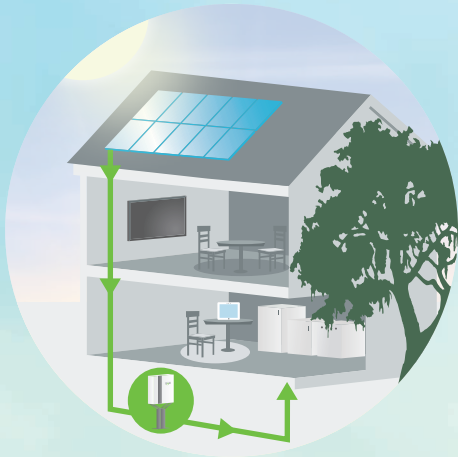
- integrated emergency power supply\* for the entire house (batteries are constantly solar rechargeable)
- your own home power station – without any coal or other fossil fuels
- direct charging of electric vehicles without emergency power supply
- pre-installed slots for heat pumps (SG-ready), thermal heat pump systems, etc.


## Recoverable

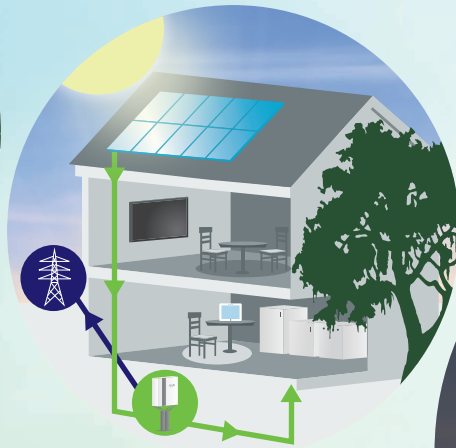
- 100% system warranty on every component
- 10 years warranty
- maintenance and repairment via E3/DC as inverter manufacturer
- battery maintenance via E3/DC
- free of charge service
- including solar inverter




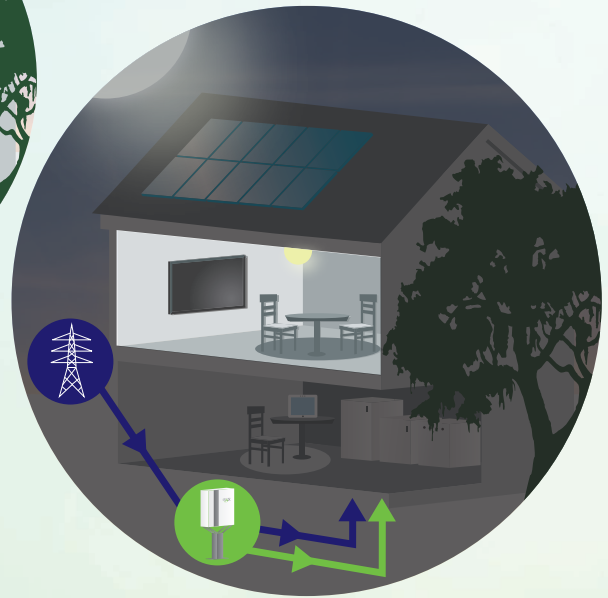
# Sunshine 24/7



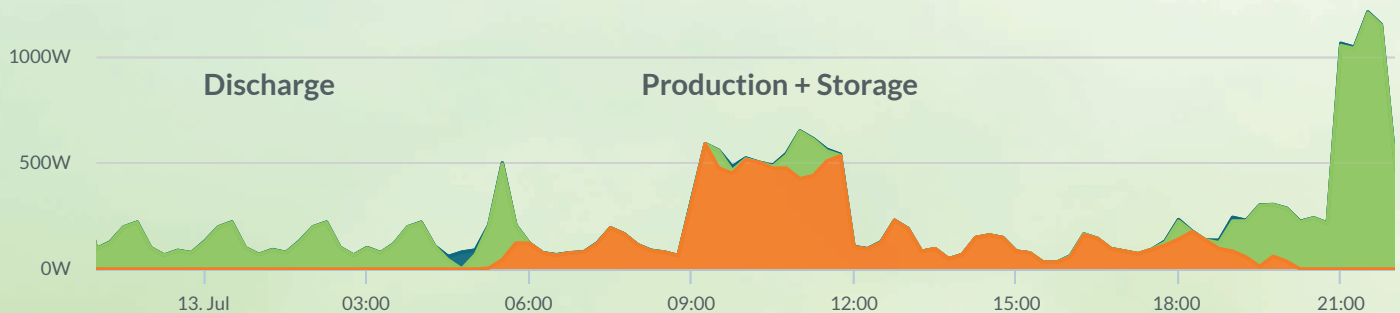
 **10 a.m.**  
in the morning



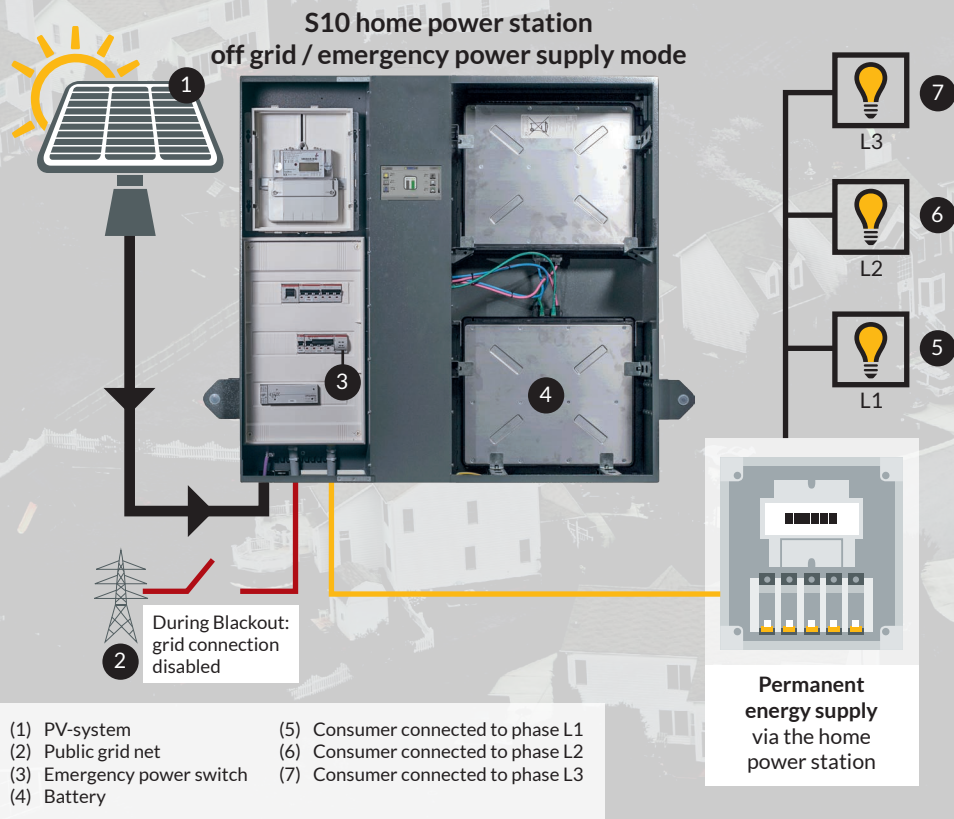
 **3 p.m.**  
in the afternoon



 ...  **6 a.m.**  
in the morning







# Real emergency power supply

with original home power stations of E3/DC

- **physical independence** of your energy provider in case of a blackout
- **emergency power supply\*** – or **constant island mode** for the entire homestead on all 3 phases
- **DC-rechargeable:** via a PV-system the house can be supplied with energy from the home power station continuously
- **unique TriLINK®-technology** integrated: neither additional switch boxes or switching units, nor additional energy supply is required
- automatic switch between grid and island mode

**TriLINK®-technology offers 100% independence –  
whenever you want it and whenever you need it.**

# E3/DC home power stations



<b>PV-production recommendation (kWp)</b>	2-5	4-7,5
<b>Consumption (kWh)</b>	up to 4.000	up to 5.000
<b>Storage (kWh)</b>	2,3-4,6	6,9-9,2
<b>Emergency power</b>	1-ph, solar rechargeable*	1-ph, solar rechargeable*

\* external socket (fully and constant)

state of the art  
lithium-ion-battery technology

up to 98% efficiency

**no cycle limitation**  
(within the time of warranty)

up to 20 years of operation  
(based on ideal conditions)



430 mm

460 mm  
incl. stand

weight: 110kg  
incl. bracket: 120kg  
incl. stand: 140kg

1810 mm

### S10 E home power station (3-ph)

1030 mm

1015 mm



touch-  
screen

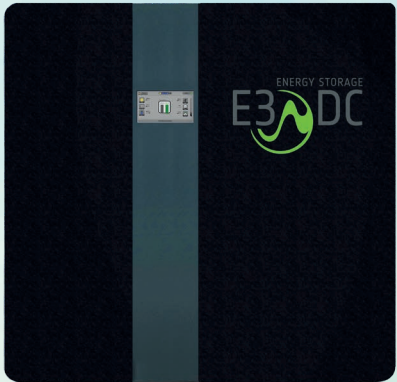
AC-  
port area

battery slots

pedestal

The real home  
power station  
with emergency  
power supply

### S10 E BLACKLINE (3-ph)



The ultimate  
home power station  
with maximum  
storage and  
emergency power  
supply

<b>PV-production recommendation (kWp)</b>	4-8	8-15
<b>Consumption (kWh)</b>	up to 6.000	up to 15.000
<b>Storage (kWh)</b>	4,6-6,9-9,2 (opt. 11,5, 13,8)	10,56-15,84
<b>Emergency power</b>	3-ph, solar rechargeable	3-ph, solar rechargeable

# Technical data

## Production

		S10 MINI S10 MINI BLACKLINE All In One with S10 M4 AI inverter	S10 E12 S10 E12 BLACKLINE All In One with S10 E12 AI inverter
Input	Maximum recommended DC-power (in W)	7.500	15.000
	Min. MPP voltage (in V)	120	250
	Min. MPP voltage for nom. power (in V)	250	500
	Max. MPP voltage (in V)	450	850
	Max. DC-input voltage (in V)	550	1.000
	Max. DC-current per tracker (in A)	12	18
	Independent MPP-tracker's	2	2
	AC-Charging – max. input power (in W)	1.500	3.000
Output	AC-nominal power (230 V, 50 Hz)	4.600 VA / 3.600 VA*	up to 12.000W* depending on the PV-size
	AC-voltage L/N/PE 230V (in V)	184 - 264	184 - 264
	AC-frequency (in Hz)	50	50
	Max. AC-current (per phase) (in A)	20 / 16*	20*
	No. of feed-in phases / AC-phases	1 / 3	3 / 3
	Technology	transformerless	transformerless
	Cos (phi)	-0,9...+0,9	-0,9...+0,9
	Round-trip efficiency incl. battery (in %)	> 88	> 88
General technical data	Efficiency EU (in %)	> 95	> 95
	short detec. / ground fault monitoring	yes / yes	yes / yes
	Certification	VDE 0126 / VDE-ARN-4105	VDE 0126 / VDE-ARN-4105
	Temperature range (in °C)	+5 to +35	+5 to +35
	Max. Noise (in dB)	< 35	< 35
	Protection class / Cooling	IP21	IP21 / fan; based on performance
	Data interface	RS232 / USB / Ethernet / CAN	RS232 / USB / Ethernet / CAN
	Display	7" TFT	7" TFT
	Energy management	integrated	integrated
	Oper. modes	DC-mode	yes
AC-charging mode		yes	yes
Off-grid mode		yes (1-ph)	yes (3-ph)
Hybrid (DC+AC)		yes	yes



# Technical data

3-phase  
emergency  
power supply\*\*  
for every grid

## Storage

		S10 MINI S10 MINI BLACKLINE All In One with S10 M4 AI inverter	S10 E 12 All In One with S10 E12 AI inverter	S10 E12 BLACKLINE All In One with S10 E12 AI inverter
Battery system	Battery inverter nominal power (in W)	1.500	3.000	3.000
	Battery type	DCB-Z	DCB-Z	DCB-N
	Battery technology	Panasonic lithium-ion	Panasonic lithium-ion	Panasonic lithium-ion
	Weight (per battery module in kg)	21	21	41
	Efficiency	up to 98%	up to 98%	up to 98%
	Temperature derating control (E3/DC)	yes	yes	yes
	Min. / Max. battery capacity net (in kWh)	2,3 / 4,6 / 6,9 / 9,2	4,6 / 6,9 / 9,2 (opt. 11,5-13,8)	10,56 / 15,84
		to 92% + 8% reserve	tp 92% + 8% reserve	to 100%*** + 8% reserve
Max. battery power (in W)	750 per module	750 per module	1.500 per module	
Full cycles (FC)	unlimited****	unlimited****	unlimited****	
System	Wallbox- / Farming connection	yes / yes	yes / yes	yes / yes
	Electrical supply (off-grid)	1-ph outlets*****	3-ph inhouse grid*****	3-ph inhouse grid*****
	Max. off-grid power sun / battery (in kW)	4,6 / 1,5 (solar recharging)	12 / 3 (solar recharging)	12 / 3 (solar recharging)
	SG Readiness	built in	built in	built in



**E3/DC-portal -  
mobile**



Battery module DCB-Z



Battery module DCB-Z



Battery module DCB-N

- \* country settings Portugal/Denmark/Austria/Switzerland
- \*\* extra charge necessary for motor powered emergency switch
- \*\*\* the indicated net capacity is settled during the complete unloading process and the self-contained reserve is additionally available
- \*\*\*\* within the time and terms of warranty
- \*\*\*\*\* emergency power supply for TT-grids as option

The battery life time depends on the installation- and operating-conditions.

All services are subject to the general terms and conditions of E3/DC GmbH.

# E3/DC Quattroporte

The modular energy supply for existing PV/CHP-systems and new AC-applications of every performance class.

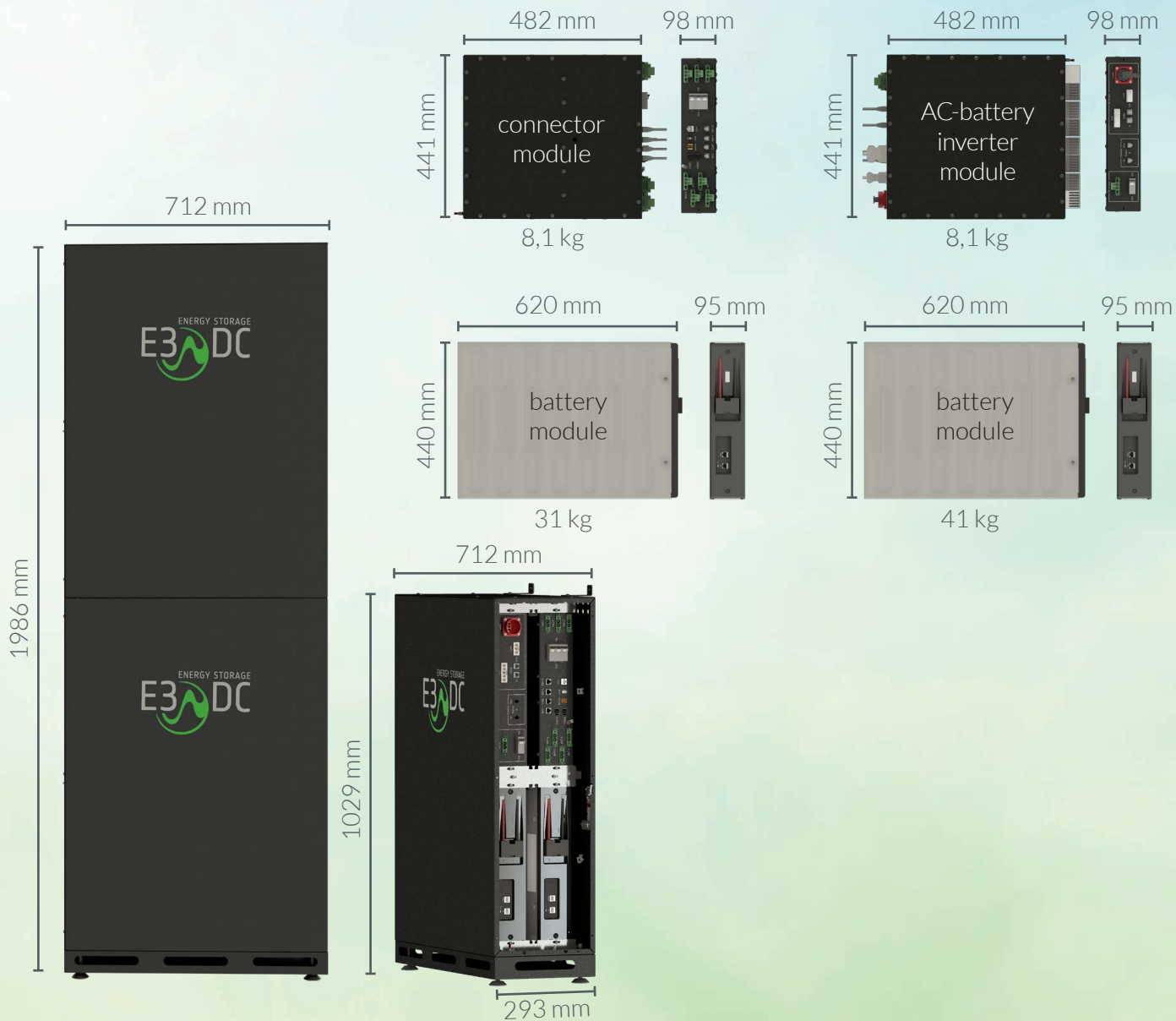
- 1-, 2-, 3-phase
- modular, stackable power and capacity
- without limitations expandable
- complete energy management (compatible to E3/DC-options)
- emergency power supply of selective consumers



PV-production recommendation (kWp)	external	external	external	external
Consumption (kWh)	up to 5.000	5.000-15.000	15.000-60.000	60.000-150.000
Storage (kWh)	3,34-5,28	10,56-15,84	up to 63,36	127/254 (2-4 LINEA)
Emergency power	1-ph until battery is completely discharged	3-ph until battery is completely discharged	3-ph until battery is completely discharged	3-ph until battery is completely discharged

# Quattroporte

The modules at a glance.





## Photovoltaic-inverter (AC)

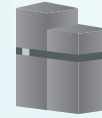


Optional:  
measurement of further  
energy sources



Two powermeters:

- production power is measured
- grid connection point is measured



**Grid  
connection**



## E3/DC-car charging technology

- charge free solar energy
- intelligent charging based on type-2 mode 3 standard with up to 22kW



## Independence of up to 100%

- free solar energy from the roof
- retrofittable to existing PV-systems
- up to 70% self-using energy

## Interfaces for heat pumps

- up to 95% autarky by sun power
- usage of natural heat
- CO<sub>2</sub> free production

## Complete expandability

- connectable to M- and E-Series
- energy farming



Energy farming (freely expandable)

## Storage of power-to-heat-systems and fuel cells

- 100% energy independent
- up to 95% cumulative effect of energy and heat

# Technical data

		Quattroporte UNO			Quattroporte DUE			Quattroporte LINEA	
		XS	S	M	L	3L / XL	XXL	2-XXL	3-XXL
Performance data	Mode of operation	1-phase			2-phase	2* or 3-phase		3-phase	
	Constant performance inverter max. ( in W)	1.500			3.000	4.500		9.000	13.500
	Peak performance (in W)	2.000			4.000	6.000		12.000	18.000
	Inverter efficiency grade max. (in %)	up to 98							
	Emergency power capable	selective connection of individual loads (until battery is empty)							
Battery system	Battery technology	Panasonic lithium-ion (>28 years production- and field experience)							
	Efficiency grade (%)	up to 98							
	Temperature regulation by E3/DC	yes							
	Nominal battery capacity min. (in kWh)	3,34**	5,28	6,68**	10,56	10,56 (3L) 15,84 (XL)	21,12	42,24	63,36
	DOD for 10Y 80% nominal capacity	100% depth of discharge*** plus 8% power reserve							
	Battery cycles	unlimited****							
	Permission	VDE-ARN-4105, CE, UN38.3							
General data	Area of operation (in C°)	+5 to +35							
	Safety class / cooling	IP20 / ventilator							
	Data port	USB / Ethernet / CAN / RS485							
	Energy management	integrated							
	Sizes WxHxD (in mm)	712x957*****x293			712x1914*****x293			1424x1914*****x293	2136x1914*****x293
	Unit weight without batteries (in kg)	79			138	165		330	495
	Total weight storing unit (in kg)	110	120	141	220	247 (3L) 291 (XL)	333	666	999
	Wallbox	yes							
	House automation	yes							
	10-year warranty battery	yes							
	10-year warranty electronics	optional							
	Protection class	IP20							

\* DUE XL can be converted to DUE 3XL (3-phase) by additional inverter (option)
  
\*\* limited availability
  
\*\*\* full discharge capacity is guaranteed
  
\*\*\*\* within the time and terms of warranty
  
\*\*\*\*\* additional 60mm pedestal cover plus 12mm (screw height)

# E3/DC Wallbox

Free charge for your electric car. The Wallbox enables your roof as an intelligent charger and avoids grid charge.



## Functions

- solar charging of electric vehicles from the own roof (**free charging without the need of energy from the grid**)
- 1-phase and 3-phase (16A and 32A)
- charging from the grid
- measurement of the charging performance (type-2 socket)
- self-programmed intelligent charging
- presentation of charging activities within the internet-portal and on mobile devices as well as on the display of the Wallbox (4,3" color screen)
- movement detection via PIR sensor (display switches on if you get closer)
- optional digital output based on DIN 61851 for external air ventilation of the surrounding (closed room as by norm)
- LED-display: charging status and charging mode



# Technical data

	Min.	Max.
Ambient temperature	- 20 °C	+ 40 °C
Air humidity (not condensing)	5%	95%
Height	361 mm	
Width	298 mm	
Depth (including wall mount)	178 (208) mm	
Weight	11 kg	
IP-protection (interior set up, garage according to EN 61439-7)	IP44	
Impact resistance (interior set up, garage according to EN 61439-7)	07 IK	
Grid connection	3-phase 400 V 32A 50Hz	
Output voltage	230 / 400 V	
Output current	16 / 32 A	
Charging performance (maximum)	22 kVA	
Charging plugs according to IEC62196-2	type-2	
Additional charging plug	Schuko 230V / 16A	
Connection clamp (interior) up to	10 mm	
Charging modes according to DIN EN 61851-1	Mode 3	
Ports	CAN Bus, touchscreen (user interface)	
Equipment	up to 30W heating as for operation mode in winter; movement detection via PIR-sensor	
Domestic electricity measurement	performance / energy e-2 plug	





# Full product warranty

Highest standards in quality and technology

## Security

- 10 years full system warranty on every component including solar inverter and batteries
- free of charge E3/DC-service (on site)
- remote control and management via internet

## Performance and product warranty

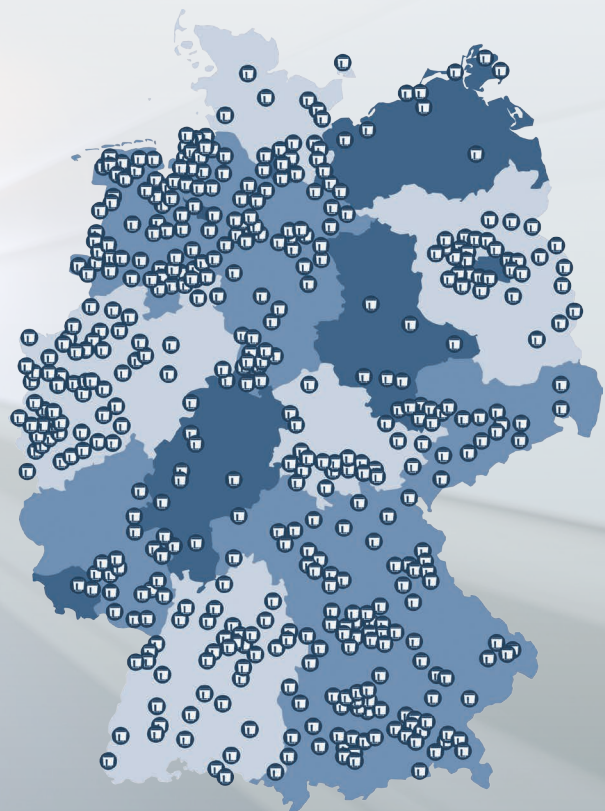
- free of charge exchange and service as inverter manufacturer and battery-service
- continuous optimization, fleet updates and new apps for customer
- preservation and optimization of all system parts
- optimizations (loss of power electronics, house consumption, battery degradation) with best in class remote maintenance
- battery systems without cycle limitation via remote control (within the guarantee)
- quality secured by ISO 9001 standard
- service via E3/DC-professionals

# 10 years E3/DC system warranty versus standard market warranty

Force majeure / defect	Standard	E3/DC
Battery degradation (performance warranty)	10 years 80%	10 years 80%
Battery defect	customer payment	working battery by means of exchange / repair
Battery electronics defect	customer payment	working battery by means of exchange / repair
Inverter defect	not included and battery incompatibility	exchange / repair of inverter
Service cost	customer payment	free of charge
Software problems	system software not up to date	up to date

## Requirements for system warranty:

- installation via **certified installers**
- connection to the **E3/DC-portal** (online)
- **set-up confirmation** for PV-mode via customer or installer (download: <https://s10.e3dc.com>)
- the system warranty applies to PV-operation (other operating modes require releases of E3/DC)





# The power to be your best

## The advantages of E3/DC home power stations at a glance

### Sustainable

- retrofit of additional battery modules
- expandability (PV, thermal heat systems, power-to-heat-systems, wind turbines)
- home automation
- electric mobility
- free of charge software updates

### Performance and capacity

- storage capacity and PV-performance expandable
- parallel operation mode of several systems (energy farming)
- real 3-phase emergency power supply\* via the house grid – complete and DC-rechargeable

### Technology

- efficient DC-technology with best performance grades
- reliable lithium-ion battery technology from the market leader Panasonic
- patented TriLINK®-technology
- integrated hard- and software from one hand
- power electronics with own energy functions



Based on a federal survey (EuPD InstallerMonitor 2016/2017) E3/DC is one of the most admired brands in the sector of energy storage manufactures and received best grades in the categories “satisfaction” and “recommendation”. E3/DC is one of the TOP5 brands in the area of energy storage / photovoltaic within Germany.

## Comfort

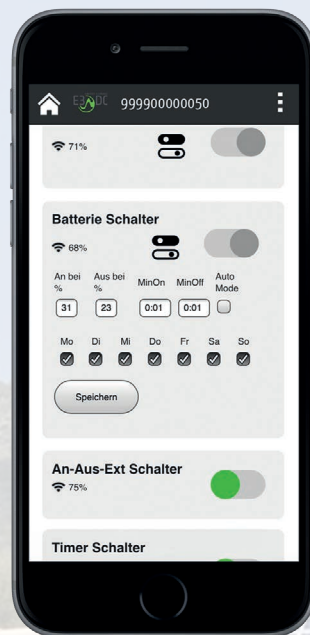
- big modern display / mobile remote control
- modern energy functions (weather forecast, home automation, virtual power plant)
- remote control and management via app, desktop pc and the devices display
- constant up to date information at home or on the go

## Design concept

- All In One – everything from one hand
- aligned components from one partner
- easy, fast and space-saving installation
- multiple design-winner

## Complete energy management

- display, management and remote control from anywhere
- preinstalled preparation for heat sources, electric mobility and energy sources
- AC- and DC-expandable (hybrid function)
- home automation (a.o. SG Ready, Modbus / TCP and KNX)





## AWARDS

As the market leader for grid connected solar emergency power supply within Germany, we constantly work on a remarkable performance.

- german brand award '17
- Plus X Award „Best product 2017“
- EuPD „Customer satisfaction“ (1,6) (2017)
- EuPD „Strong Growth Brand“ (2017)
- EuPD „Top Brand PV“ (2017)
- German Design Award (2017)
- IBESA „Storage Champion“ (2016)
- Wirtschaftswoche „Top energy storage“ (2016)
- EuPD „Customer satisfaction“ (1,6) (2016)
- EuPD „Top Brand PV“ ()
- Marke des Jahrhunderts (2015)
- TOP100 award (2015)
- EuPD „Top Brand PV“ (2015)
- reddot award (2015)
- pv magazine award „top innovation“ (2014)



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