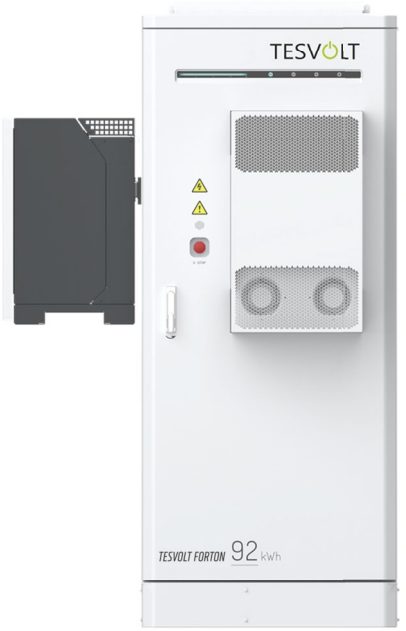
TESVOLT
Free to go green.



TESVOLT FORTON

The outdoor economic miracle with HYPEROX+ technology*

** High-temperature LFP cell*

Great value

Up to **90% more yield** with simple use of the storage system for energy trading. Everything at a glance with the **TESVOLT Energy** portal Long lifespan with up to 15,000 cycles.

Genuine efficiency

Built-in **HYPEROX+ technology** reduces energy demand for cooling by about **60%** compared to liquid-cooled systems. Result: **lower operating costs** and **high cycle stability**.

Security

High **operational and investment reliability** thanks to integrated cybersecurity, over-the-air updates and direct service access. Up to **15 years warranty** when using the TESVOLT Energy Trading Option.

Flexibility

Optimum system design and great scalability, with up to four battery systems per inverter and up to 16 systems in parallel, from 90 kW to 1,500 kW. Easy commissioning thanks to **plug-and-play installation**.

TESVOLT AG
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Phone +49 (0) 3491 8797 100
info@tesvolt.com | **www.tesvolt.com**

Trading through:

TESVOLT ENERGY

Management System ISO 9001:2015
TÜVRheinland ZERTIFIZIERT

www.tesvolt-energy.com

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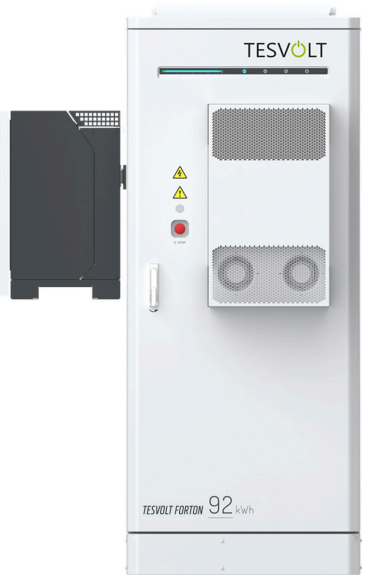
TECHNICAL DATA SHEET

TESVOLT FORTON

ENERGY STORAGE SYSTEM TECHNICAL DATA

Product name	TESVOLT FORTON
Type designation	FORTON/12-30
Energy content (at 100% DoD)	92 kWh
Maximum charging/discharging power	92 kW
Nominal voltage	921.6 V ⎓
Operating voltage	806.4–1036.8 V ⎓
Max. C-rate	1C
Cell chemistry	LFP, high temperature
Cooling	Heat exchanger, air-cooled
Altitude of installation site	< 3000 m above sea level
Ambient temperature	–20 °C to 55 °C
Air humidity	5–95% (non-condensing)
Weight (not including inverter)	1400 kg
Dimensions (H x W x D, not including inverter)	2100 mm x 860 mm x 1300 mm
Noise level (not including inverter)	60 dB (A)
Protection class	IP 55
Paintwork	C4
Certification	CE, UN 38.3, IEC 62619:2022, IEC 62477-1:2022



INVERTER TECHNICAL DATA (KACO BLUEPLANET GRIDSAVE 92.0 TL3-S)

DC input	
Operating voltage	668–1315 V ⎓
Max. input current	145 A
AC output	
Nominal power	92000 VA
Maximum power	92000 VA
Nominal voltage	400 V
Voltage range (three-phase)	300–580 V
Nominal frequency (range)	50 Hz / 60 Hz (45 Hz–65 Hz)
Nominal current	3 x 132.3 A
Maximum current	3 x 132.3 A
Reactive power/cos phi	0–100% Smax/0.30 ind.–0.30 cap.
Harmonic distortion (THD)	< 3%
Number of feed-in phases	3
General data	
Max. efficiency	Charging: 98.5% Discharging: 98.7%
Operating mode	Grid-connected (charge/discharge)
Self-consumption (standby)	< 8 W without PCU, < 14 W with PCU relay closed
Protective functions	Overvoltage, overcurrent, overload, undervoltage
Wiring concept	Transformerless
Mechanical data	
AC connections	Screw terminals, max. 240 mm² Cu or Al
Ambient temperature	–20 °C to 60 °C
Air humidity	0–100%
Altitude of installation site	< 3000 m above sea level
Cooling	Temperature-controlled fan
Protection class	IP66/NEMA 4X
Noise level	< 60 dB (A)
Dimensions (H x W x D)	719 mm x 699 mm x 450 mm
Weight	80 kg
Certification	
Safety	IEC 62477-1:2012, IEC 62109-1/2

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SYSTEM CONFIGURATION

Number of energy storage	Energy [kWh]																
16	1475				■				■								■
15	1382					■										■	
14	1290							■							■		
13	1198													■			
12	1106			■	■		■						■				
11	1014											■					
10	922					■					■						
9	829			■						■							
8	737		■		■				■								
7	645							■									
6	553		■	■			■										
5	461					■											
4	369	■	■		■												
3	276	■		■													
2	184	■	■														
1	92	■															
Output [kW]		92	184	276	368	460	552	644	736	828	920	1012	1104	1196	1288	1380	1472
Number of KACO blueplanet gs 92		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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EUROPÄISCHE UNION
EFRE
Europäischer Fonds für regionale Entwicklung

Registration in the manufacturer's myTESWORLD portal (https://mytesworld.tesvolt.com) is required to use the energy management system (EMS) TESVOLT Energy Manager.
Registration in Sunny Portal powered by ennexOS from the manufacturer SMA (Sunny Portal powered by ennexOS) is required to use the energy management system (EMS) Data Manager M.