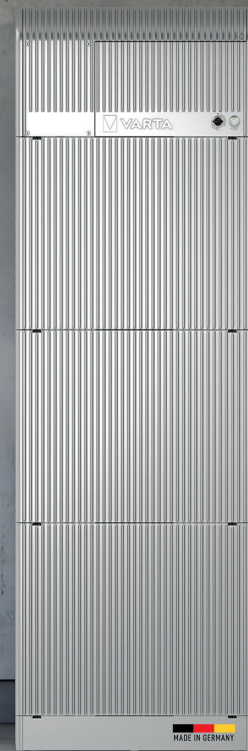




VARTA



Complete Energy System

VARTA.hybrid.wall

Intelligent. Flexible. Future-proof.

The VARTA.hybrid.wall system combines the VARTA.hybrid inverter and the VARTA.wall high-voltage storage unit into a modular, high-performance system. As a hybrid or AC-coupled solution, it ensures maximum flexibility for both new and existing PV systems.



3-phase system

6 kW or 10 kW AC power



Hybrid or AC-coupled operation

Suitable for new and existing PV systems



Scalable high-voltage storage

4.5 – 20 kWh usable battery capacity
Flexibly expandable



Three-phase backup power supply

Automatic switchover with optional
VARTA.backups witch



Flexible PV configuration

Up to 4 MPP trackers (85 – 850 V) and
up to 200 % DC/AC ratio



Integrated energy management

Expandable via **VARTA.iq**
Compatible with over 700 devices



Plug-and-play installation

Plug-in system, pre-assembled cables
and simple commissioning via app



Made in Europe

Engineered in Germany

TECHNICAL DATA

VARTA.HYBRID INVERTER



	VARTA.hybrid 6-3-2	VARTA.hybrid 10-3-2	VARTA.hybrid 10-3-4
DC-PV input (hybrid system)¹			
Max. PV input power (total)	12 kW	12 kW	15 kW
Max. PV input power (per PV input)	9 kW	9 kW	9 kW
Number of MPP trackers	2	2	4
Max. input voltage		1,000 V	
MPP voltage range		85 - 850 V	
Max. input current per PV input		15 A	
Max. short-circuit current per PV input		18 A	
AC output			
Grid connection		3-phase 3, PE, N 230 / 400 V 50 Hz	
Rated power	6 kW	10 kW	10 kW
Max. apparent power	6 kVA	10 kVA	10 kVA
Rated output current	8.7 A	14.5 A	14.5 A
Maximum output current		16 A	
Maximum output fault current		16 A	
Grid frequency range		45 - 55 Hz	
Power factor (cos phi) adjustment range		(0.8 capacitive to 0.8 inductive)	
Equivalent current function²			
Rated power ³	6 kW	10 kW	10 kW
Max. apparent power per phase	3.67 kVA	3.67 kVA	3.67 kVA
Grid connection		3-phase 3, PE, N 230 / 400 V 50 Hz	
Switchover time in emergency power mode		< 20 seconds	
Other features		Automatic switchover, black start capable, solar recharging	
Efficiency			
Max. efficiency		97.5 %	
European efficiency	95.9 %	97.1 %	97.1 %
MPP efficiency		> 99.7 % (static); > 99 % (dynamic)	

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¹ Relevant when used as a hybrid system.

² Additional accessories are required to use the emergency power function – VARTA.backups witch (expected to be available from Q3 2024)

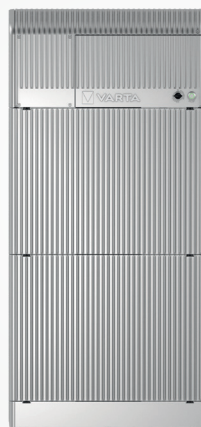
³ The actual AC power available in backup mode depends on the current generation output and the available battery power. This depends, among other things, on the selected battery configuration and the battery's state of charge.

Technical changes and errors excepted. You can find the latest version of the data sheet here: <https://www.varta-ag.com/de/konsument/service/downloads-energiespeicher>

	VARTA.hybrid 6-3-2	VARTA.hybrid 10-3-2	VARTA.hybrid 10-3-4
Other data			
Weight	24.5 kg	24.5 kg	26.5 kg
Dimensions (WxHxD)	70x50x19 cm		
IP rating	IP65		
Operating temperature range	-25 °C to +60 °C		
Max. relative humidity	0 to 100 % (condensing)		
Max. installation altitude	2,000 m above sea level		
Typical noise level	30 dB(A); fan at 100 %: 46 dB (A)		
Protection class	I (protective earthing)		
Overvoltage category	III (AC); II (DC)		
Isolation principle	No galvanic isolation, transformerless		
Other safety features	Grid monitoring (NA protection); residual current monitoring; DC isolator		
Certifications	VDE-AR-N 4105; NA/EEA; TOR Erzeuger; CE conformity (Details of further certifications in the CE declaration)		
Country approvals	Germany, Austria, Switzerland		
Warranty	10 years ¹		

TECHNICAL DATA

VARTA.WALL ENERGY STORAGE



The VARTA.wall high-voltage battery is the ideal storage solution for the VARTA.hybrid.wall system. It is modularly expandable and allows for flexible system configurations.

	VARTA.wall BM1	VARTA.wall BM2
Basic battery data		
Cell technology	Lithium-ion (NCA)	Lithium iron phosphate (LFP)
Usable capacity per module	5 kWh	4.5 kWh
Number of modules	1-4	
Total capacity	5-20 kWh	4.5-18 kWh
Protection rating	IP55	
Installation location	Indoors	Indoors & covered outdoor areas
Mounting type	Free-standing with wall fixation Optionally wall-mounted with VARTA.wall Mount Kit (accessory)	
Operating temperature range	+2 to +42 °C	-10 to +45 °C
Warranty	10 years ¹	

¹10-year warranty upon completion of the online warranty registration in accordance with the relevant "Manufacturer's Warranty for VARTA Energy Storage Systems" (available at: www.varta-storage.com/service/downloads).

Technical changes and errors excepted. You can find the latest version of the data sheet here: <https://www.varta-ag.com/de/konsument/service/downloads-energiespeicher>

TECHNICAL DATA

VARTA.HYBRID.WALL COMPLETE SYSTEM



Charging and discharging power of the storage system ¹	VARTA.hybrid 6-3-2	VARTA.hybrid 10-3-2	VARTA.hybrid 10-3-4
Combination with VARTA.wall BM1			
5 kWh (1 module)	2.2 / 2.5 kW	2.2 / 2.5 kW	2.2 / 2.5 kW
10 kWh (2 modules)	4.4 / 5 kW	4.4 / 5 kW	4.4 / 5 kW
15 kWh (3 modules)	6.7 / 6 kW	6.7 / 7.6 kW	6.7 / 7.6 kW
20 kWh (4 modules)	8.9 / 6 kW	8.9 / 10 kW	8.9 / 10 kW
Combination with VARTA.wall BM2			
4.5 kWh (1 module)	2.2 kW	2.2 kW	2.2 kW
9 kWh (2 modules)	4.5 kW	4.5 kW	4.5 kW
13.5 kWh (3 modules)	6.7 / 6 kW	6.7 kW	6.7 kW
18 kWh (4 modules)	9 / 6 kW	9 kW	9 kW

Integrated basic energy management functions:

Expansion with VARTA.iq (optional) Additional functions:

Automatic control of charging and discharging processes to optimise self-consumption	Smart control of external peripheral devices (e.g. heat pump, wallbox, smart home devices)
Accounting for additional in-house PV generation (e.g. via additional inverters) to optimise self-consumption	Integration of over 700 compatible devices
Dynamic feed-in control of the VARTA.hybrid.wall (0–100 %)	Advanced energy functions (e.g. time- or tariff-based charging and discharge strategies; bidirectional charging with electric vehicles)
Backup power operation with automatic switchover (optional with VARTA.backups witch)	Cross-system controllability in accordance with § 14a (EnWG) and § 9 (EEG) (including peripheral devices)
Control capability of the VARTA.hybrid.wall in accordance with § 14a (EnWG) and § 9 (EEG)	Cascading of multiple VARTA.hybrid.wall systems, VARTA storage units and third-party systems into a centrally controlled overall system

System requirements:

Also required for operation: VARTA.energymeter (energy meter)

Optional: VARTA.backups witch (external disconnect point for backup power operation)²

Further information, as well as brochures and data sheets on the VARTA.hybrid.wall system, can be found in our download area at:

<https://www.varta-ag.com/de/konsument/service/downloads-energiespeicher>

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¹Nominal DC power at rated voltage. The actual power available depends on the state of charge, temperature and operating conditions. When the storage system is charged exclusively from the grid (AC side), the charging power is limited to the rated power of the inverter.

² Expected to be available from Q3 2026.

Technical changes and errors excepted. You can find the latest version of the data sheet here: <https://www.varta-ag.com/de/konsument/service/downloads-energiespeicher>