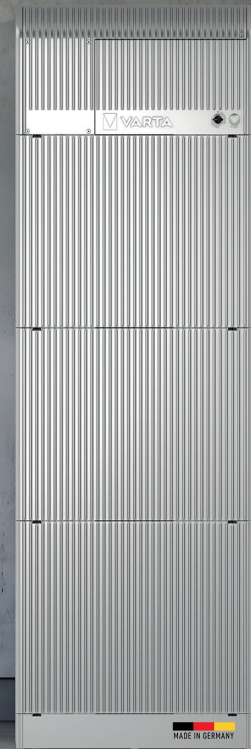




# VARTA



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



### Pug-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<br>6-3-2                                       | VARTA.hybrid<br>10-3-2 | VARTA.hybrid<br>10-3-4 |
|---------------------------------------------|-------------------------------------------------------------|------------------------|------------------------|
| DC-PV input (hybrid system) <sup>1, 2</sup> |                                                             |                        |                        |
| 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 <sup>3</sup>              |                                                             | 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 function <sup>4</sup>    |                                                             |                        |                        |
| Rated power <sup>2</sup>                    | 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                         | 96 %                                                        | 97.1 %                 | 97.1 %                 |
| MPP efficiency                              | > 99.7 % (static); > 99 % (dynamic)                         |                        |                        |

[www.varta-ag.com](http://www.varta-ag.com)

<sup>1</sup> Relevant when used as a hybrid system.

<sup>2</sup> The available power may be reduced depending on ambient temperature, DC input voltage, state of charge and other operating conditions.

<sup>3</sup> Maximum efficiency is achieved at a DC string voltage of 630 V.

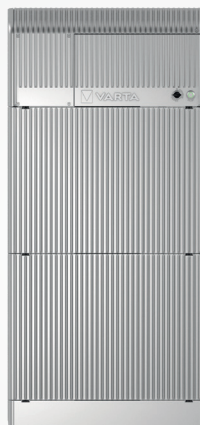
<sup>4</sup> Additional accessories are required to use the backup power function – VARTA.backupswitch (expected to be available from Q3 2026)

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>

|                             | VARTA.hybrid<br>6-3-2 | VARTA.hybrid<br>10-3-2                                                                                          | VARTA.hybrid<br>10-3-4 |
|-----------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------|------------------------|
| <b>Other data</b>           |                       |                                                                                                                 |                        |
| 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                                                                          |                        |
| DC connection               |                       | Phoenix Contact SUNCLIX (2.5–6 mm <sup>2</sup> conductor cross-section)                                         |                        |
| AC connection               |                       | 5-pin AC connector (2.5–4 mm <sup>2</sup> conductor cross-section)                                              |                        |
| Other safety features       |                       | Grid monitoring (NA protection); residual current monitoring; DC isolator                                       |                        |
| Certifications              |                       | VDE-AR-N 4105; NA/EEA; TOR Erzeuger; CE conformity<br>(Details of further certifications in the CE declaration) |                        |
| Country approvals           |                       | Germany, Austria, Switzerland                                                                                   |                        |
| Warranty                    |                       | 10 years <sup>1</sup>                                                                                           |                        |

## TECHNICAL DATA

### VARTA.WALL ENERGY STORAGE



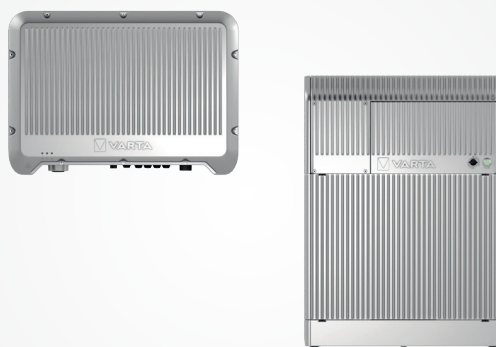
|                                                | VARTA.wall BM1                                                                                   | VARTA.wall BM2                  |
|------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------|
| <b>Basic battery data</b>                      |                                                                                                  |                                 |
| 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 <sup>1</sup>           |
| <b>Dimensions (WxHxD) by number of modules</b> |                                                                                                  |                                 |
| 1                                              | 60,5 x 86 x 10 cm                                                                                | 60,5 x 86 x 14 cm               |
| 2                                              | 60,5 x 130,6 x 10 cm                                                                             | 60,5 x 130,6 x 14 cm            |
| 3                                              | 60,5 x 175,2 x 10 cm                                                                             | 60,5 x 175,2 x 14 cm            |
| 4                                              | 60,5 x 219,7 x 10 cm                                                                             | 60,5 x 219,7 x 14 cm            |

<sup>1</sup>10-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](http://www.varta-storage.com/service/downloads)).

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## TECHNICAL DATA

### VARTA.HYBRID.WALL COMPLETE SYSTEM



| Charging and discharging power of the storage system <sup>1</sup> | VARTA.hybrid<br>6-3-2 | VARTA.hybrid<br>10-3-2 | VARTA.hybrid<br>10-3-4 |
|-------------------------------------------------------------------|-----------------------|------------------------|------------------------|
| <b>Combination with VARTA.wall BM1</b>                            |                       |                        |                        |
| 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            |
| <b>Combination with VARTA.wall BM2</b>                            |                       |                        |                        |
| 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.backswitch)                             | 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.backswitch (external disconnect point for backup power operation)<sup>2</sup>

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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<sup>1</sup>The available power may be reduced depending on ambient temperature, DC input voltage, state of charge and other 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.

<sup>2</sup> Expected to be available from Q3 2026.

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