

Facts and figures

VARTA ELEMENT 3



VKB No.

VARTA element 3/S2 battery storage system
Retrofit kit VARTA element 3

▶ 02700 852 201
▶ 37000 718 009



SYSTEM

Nominal battery capacity
System performance
Depth of discharge
Usable storage capacity
Energy management system
Dimensions (W x H x D) in mm
Weight incl. battery module
Protection class
Mains connection
Mains configuration
System warranty*

- ▶ 3.2 kWh
- ▶ 1.6 kW
- ▶ 90 %
- ▶ 2.9 kWh
- ▶ EMS VS-Pro
- ▶ 600 x 1,176 x 500
- ▶ 105 kg
- ▶ IP22
- ▶ 400 V AC, 3-phase, 50 Hz
- ▶ TN systems, TT systems
- ▶ 7 years maintenance warranty

BATTERY MODULE

Electrochemistry of cell
Cell monitoring
Charge/discharge time
Warranty on the batteries*

- ▶ Lithium-ion
- ▶ Fully integrated
- ▶ About 2 h to maximum charge state
- ▶ 10 years or 4,000 cycles**

FUNCTION

Optimization of internal consumption
Energy management
Power output recording
Readout functions and service
Visualization

- ▶ 3-phase
- ▶ Integrated, fully automated
- ▶ 3-phase via current sensor
- ▶ Ethernet
- ▶ Internet web portal and internal web server

SMART HOME

Data interface
System extension (optional)

- ▶ XML, Modbus/TCP
- ▶ 4 programmable switch contacts for load control, SolarLog, meteocontrol, RWE SmartHome, Lichtblick (decentralized power generation)
- ▶ PC, tablet, smartphone

Control concept and monitoring

OPERATING STATES

Charge/discharge process

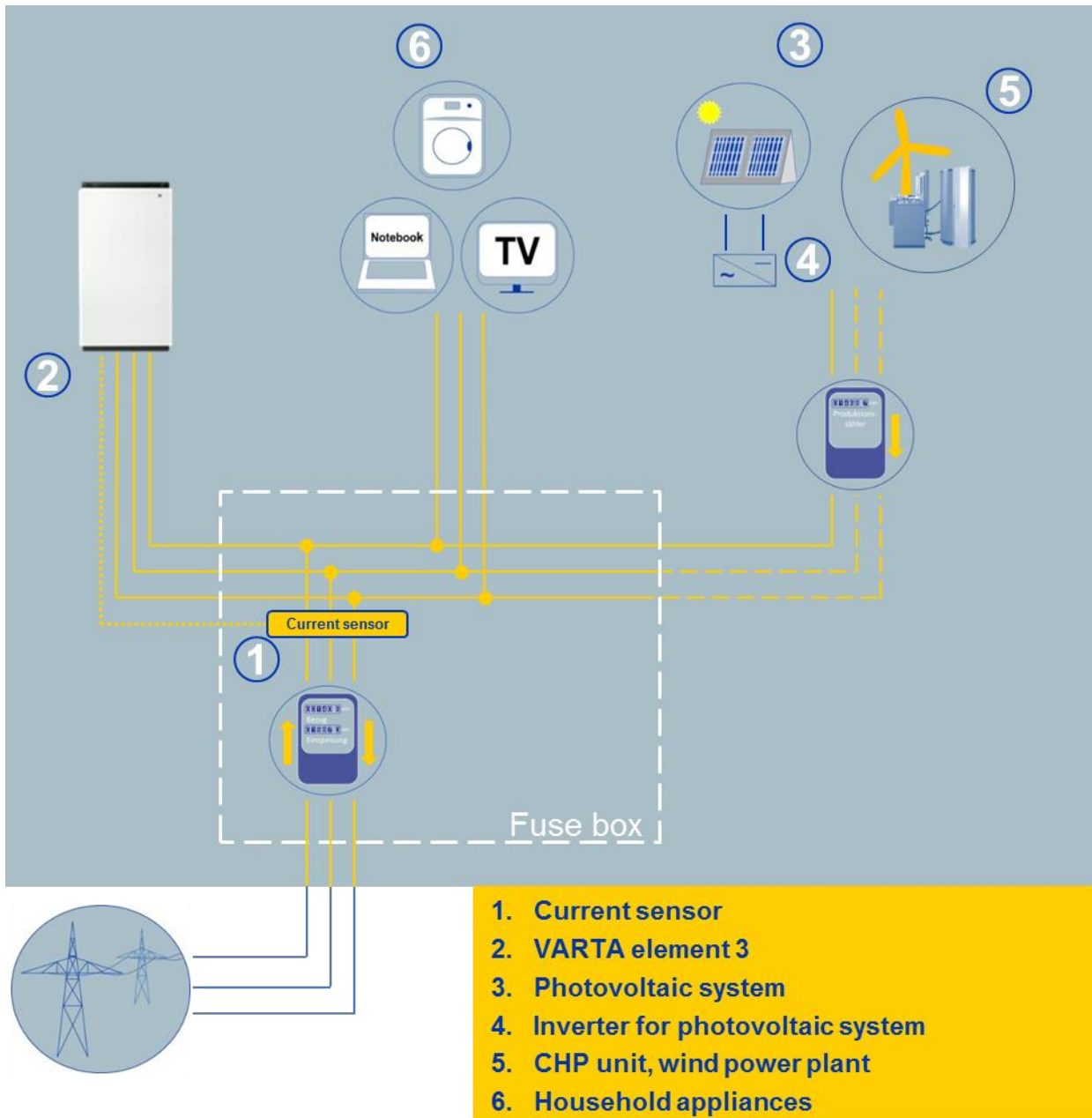
- ▶ Self-sufficiency optimized

*according to terms of "manufacturer's warranties" (available at: www.varta-storage.de/downloads.html)

**80 % residual capacity

Installation at a glance

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Current sensor

The current sensor acts as an instrument to measure the current draw or feed into the public grid. It is installed directly behind the electricity meter inside the fuse box for measuring the current flow through the house connection line.

Sensor unit

The sensor unit transmits the current sensor measurement result to the energy storage system. It is mounted on the current sensor. The sensor unit is connected to VARTA element 3 via the supplied sensor cable (RJ12).

Energy generating plants

VARTA element 3 features grid parallel AC coupling and is in compliance with different power sources: Photovoltaic system, CHP Unit, Wind power plant, ...