Facts and figures
VARTA ELEMENT 9

VARTA element 9/S2 battery storage system

VKB No.
▶ 02700 852 203

SYSTEM

Nominal battery capacity	▶ 9.6 kWh
System performance	▶ 3.0 kW
Power extension (Discharging for 6 min. during one discharge cycle)	▶ 3.6 kWh
Depth of discharge	▶ 90 %
Usable storage capacity	▶ 8.6 kWh
Energy management system	▶ EMS VS-Pro
Dimensions (W x H x D) in mm	▶ 600 x 1,176 x 500
Weight incl. battery modules	▶ 185 kg
Protection class	▶ IP22
Mains connection	▶ 400 V AC, 3-phase, 50 Hz
System configurations	▶ TN systems, TT systems
System warranty*	▶ 7 years maintenance warranty

BATTERY MODULE

Electrochemistry of cell	▶ Lithium-ion
Cell monitoring	▶ Fully integrated
Charge/discharge time	▶ About 3 h to max. charge state
Warranty on the batteries*	▶ 10 years or 4,000 cycles**

FUNCTION

Optimization of internal consumption	▶ 3-phase
Energy management	▶ Integrated, fully automated
Power output recording	▶ 3-phase via current sensor
Readout functions and service	▶ Ethernet
Visualization	▶ Internet web portal and internal web server

SMART HOME

Data interface	▶ XML, Modbus/TCP
System extension (optional)	▶ 4 programmable switch contacts for load control, SolarLog, meteocontrol, RWE SmartHome, Lichtblick (decentralized power generation)
Control concept and monitoring	▶ PC, tablet, smartphone

OPERATING STATES

Charge/discharge	▶ Self-sufficiency optimized

*according to terms of “manufacturer’s warranties“ (available at: www.varta-storage.de/downloads.html)
**80 % residual capacity

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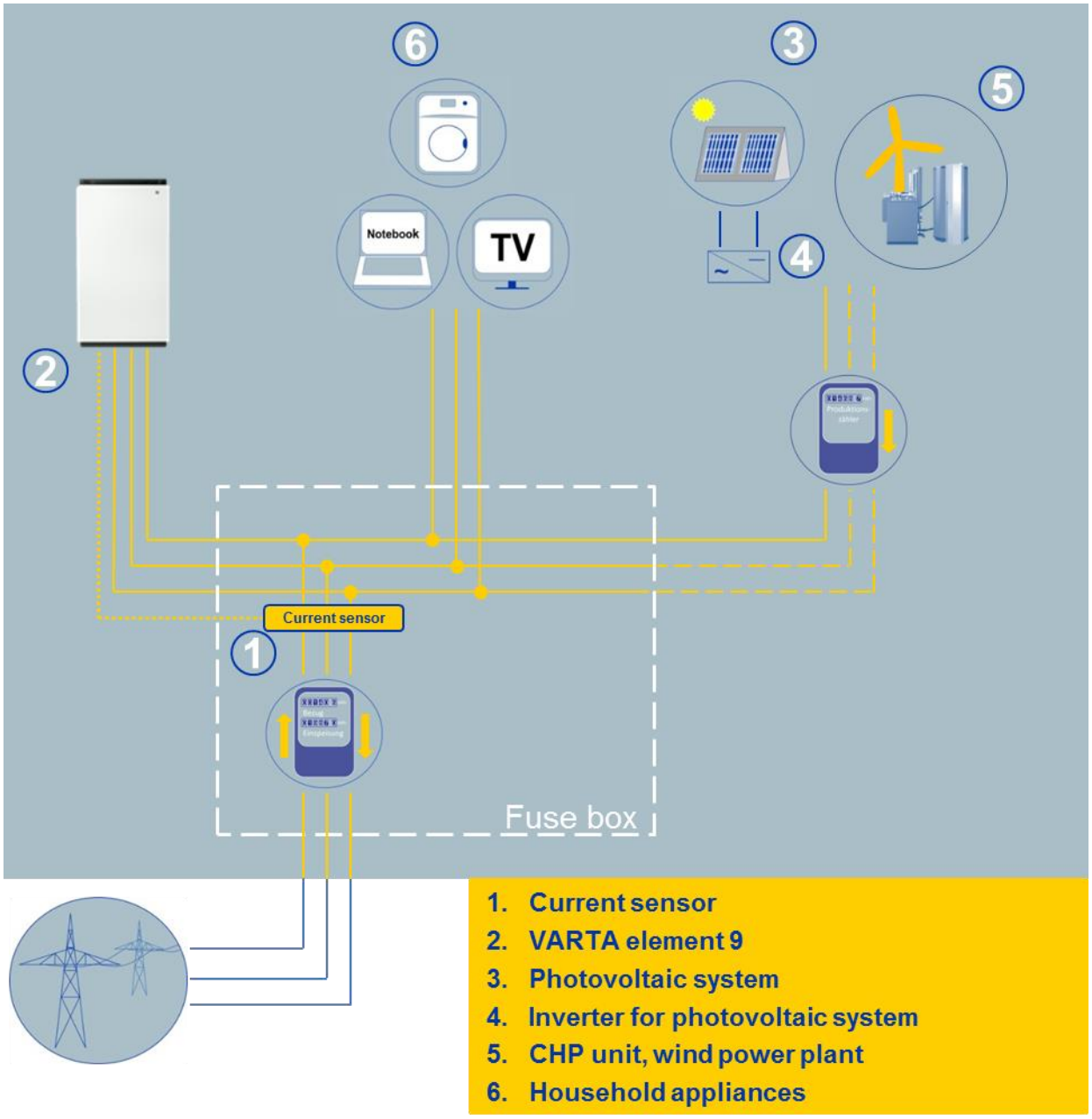
Installation at a glance
VARTA ELEMENT 9



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 9 via the supplied sensor cable (RJ12).

Energy generating plants
VARTA element 9 features grid parallel AC coupling and is in compliance with different power sources:
Photovoltaic system, CHP Unit, Wind power plant, …

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