

Facts and figures

VARTA FAMILY



VKB number

VARTA family storage system
battery module

- ▶ 02703 852 201
- ▶ 56650 748 099

SYSTEM

Nominal battery capacity
Battery inverter (depending on the number of
battery modules)
Energy management system
Dimensions (W x H x D) in mm
Weight (empty)
Protection class
Mains connection
System charge/discharge time
System configurations
Warranty on system*

- ▶ from 3.7 to 13.8 kWh, modular expansion
- ▶ 4.0 kW
- ▶ EMS VS-Pro
- ▶ 600 x 1,850 x 400
- ▶ 110 kg
- ▶ IP33
- ▶ 400 V AC, 3-phase
- ▶ depending on the number of battery modules
- ▶ TN systems; TT systems
- ▶ 7 years maintenance warranty

BATTERY MODULE

Electrochemistry of cell
Nominal module capacity
Depth of discharge
Usable module capacity
Module output
Connection
Cell monitoring
Dimensions (W x H x D) in mm
Weight
Battery module charge/discharge time
Warranty on batteries*

(COMPRISING BATTERY AND POWER ELECTRONICS)

- ▶ lithium-iron phosphate
- ▶ 461 Wh
- ▶ 90 %
- ▶ 415 Wh
- ▶ 162 W
- ▶ touch-safe
- ▶ fully integrated
- ▶ 165 x 130 x 320
- ▶ 6 kg
- ▶ ~3 h, to max. charge state
- ▶ 10 years **

FUNCTION

Internal consumption optimization
Emergency power capability
Energy management
Output recording
Readout functions/service
Visualization
System switchover time in emergency power mode

- ▶ 3-phase, regulated
- ▶ 3-phase
- ▶ integrated, fully automated
- ▶ 3-phase via current sensor
- ▶ ethernet
- ▶ internet web portal and internal web server
- ▶ < 5 seconds

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/monitoring

OPERATING STATES

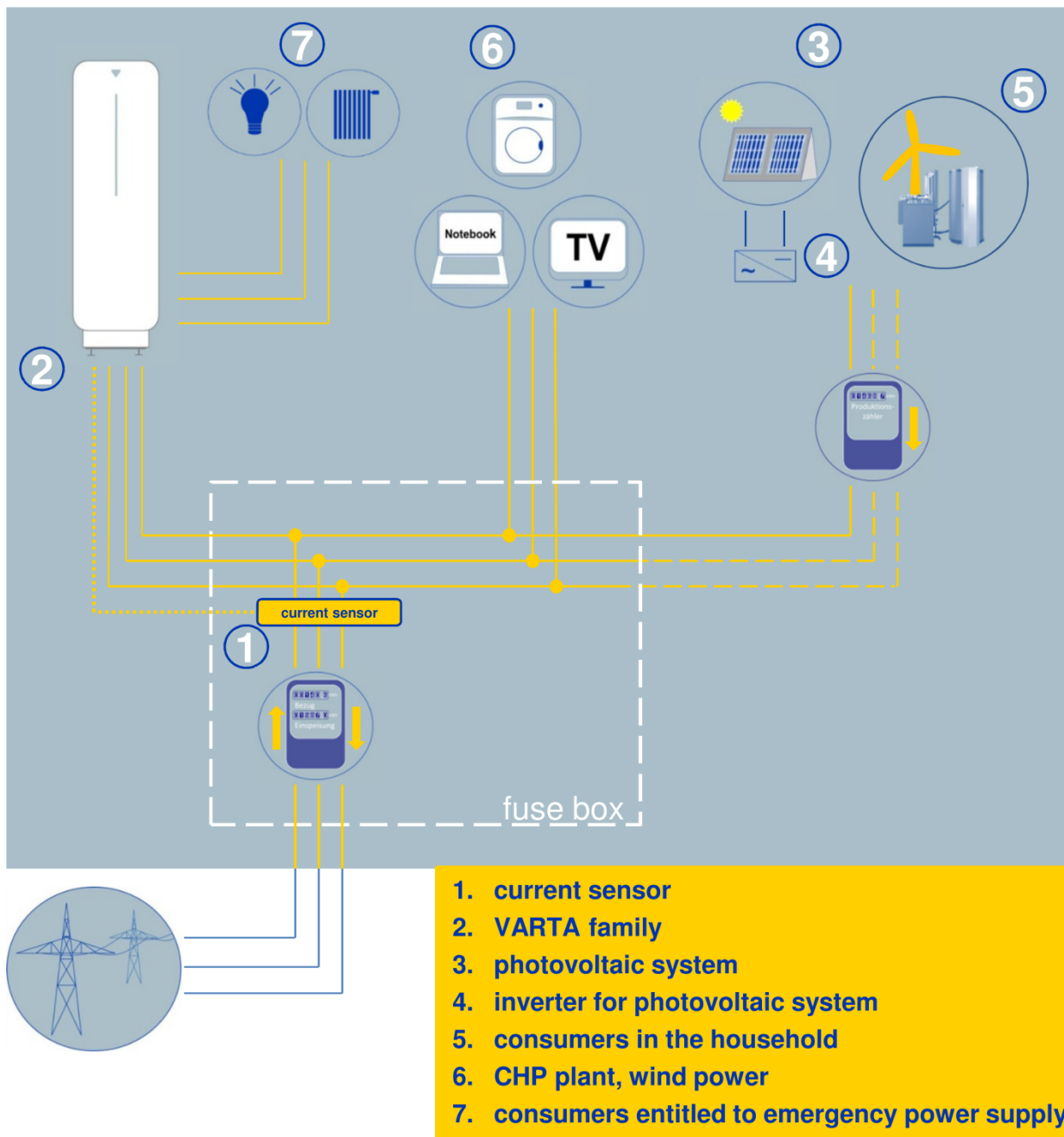
Charge/discharge
Emergency power mode

- ▶ self-sufficiency optimized
- ▶ mains failure

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

**80 % residual capacity





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 family via the supplied sensor cable (RJ12).

Emergency power mode

The output from the isolated network depends on the VARTA family expansion stage. A maximum of 1.33 kW per phase is possible.