

THE INDEPENDENCE FOR FAMILIES.



VKB-NUMBER

VARTA element 6/S4	02709 858 302
VARTA element 9/S4	02709 858 303
VARTA element 12/S4	02709 858 304
VARTA element retrofit kit +3	37000 720 006
VARTA element retrofit kit +6	37000 720 007

► **Technical data and facts**

SYSTEM DATA	VARTA ELEMENT 6	VARTA ELEMENT 9	VARTA ELEMENT 12
Battery capacity nominal / usable	6.5 / 5.9 kWh ¹	9.8 / 8.8 kWh ¹	13.0 / 11.7 kWh ¹
Max. AC power charge / discharge	2.2 / 1.8 kW	3.4 / 3.0 kW	4.0 / 3.7 kW
Weight	115 kg	145 kg	165 kg
Dimensions (w x h x d) in mm	600 x 1,176 x 500		
Electrochemistry	NMC		
Safety	Multi-level, hard- and software redundant cell monitoring		
Mains connection / configuration	400 V AC, 3-phase, 50 Hz (TN- and TT-systems)		
Efficiency	85.7 % System Performance Index (VARTA element 12) ²		
Country licenses	Germany, Austria, Switzerland		
Protection class	IP 22		
Cooling	Temperature-dependent fan control		
Noise emission typical/max.	42 dBA / 49 dBA		
Ambient conditions	+5 °C to +30 °C		
System warranty	10 years (permanent internet connection), 5 years (without internet connection) ³		
Warranty on batteries	10 years or 4,000 cycles ⁴		

FUNCTIONS

Energy management system	EMS VS-Pro 2
Smart home interfaces	XML, Modbus TCP
Visualisation of production data	PV sensor, data logger, SunSpec ⁵
Dynamic PV export limitation	SunSpec ⁵
External relay control	Rutenbeck
Cascading	Up to five VARTA energy storage systems
Operating strategy	Private consumption optimisation, PV yield optimisation
Hardware interfaces	RJ45 (Ethernet), 2x RJ12 (current sensor and PV sensor)
Visualisation	VARTA Storage app for Android and iOS, web portal and internal web server

STANDARDS

CE-conformity, Low Voltage Directive (LVD) 2014/35/EU, EMC Directive 2014/30/EU, UN 38.3, DIN EN 62109-1:2011, VDE-AR-N 4105:2018-11, TOR Erzeuger Typ A V1.1, NA-EEA-CH

¹ Capacity measurement at 25 °C with 0,2 C charge to 58,8 V and 0,05 C cut-off current and discharge with 0,2 C to 42 V.

² VARTA element 12 with reference house 5010 kWh/year and 5 kWp PV system. Simulated according to efficiency guideline 2.0.

³ According to terms of manufacturer's warranties (available at: www.varta-storage.com/service/downloads).

⁴ Residual capacity: 80 %.

⁵ According to compatibility list (available at: www.varta-storage.com/element-S4-compatibility).