

VARTA pulse / pulse neo

130 Years of Battery Expertise in Your Energy Storage System.



- ▶ **Designer chair: From the vintage market.**
- ▶ **Mortgage: From the bank.**
- ▶ **Energy storage system: From VARTA Storage.**

A STEP INTO THE FUTURE.



VKB-NUMBER

VARTA pulse 3 energy storage system	02707 852 301
VARTA pulse 6 energy storage system	02707 852 302
VARTA pulse neo 3 energy storage system	02707 858 311
VARTA pulse neo 6 energy storage system	02707 858 312

► Technical data and facts

SYSTEM DATA	PULSE / PULSE NEO 3	PULSE / PULSE NEO 6
Battery capacity nominal	3.3 kWh *	6.5 kWh *
Max. AC power charge / discharge	1.8 / 1.6 kW	2.5 / 2.3 kW
Dimensions (w x h x d) in mm	600 x 690 x 186	600 x 690 x 186
Weight	45 kg	65 kg
Electrochemistry	Lithium nickel manganese cobalt oxide (NMC)	
Safety	Multi-level, hard- and software redundant cell monitoring	
Mains connection / configuration	230 V AC, 1-phase, 50 Hz (TN- and TT-systems)	
Efficiency	90.6 % System Performance Index **	
Country licences	Germany, Austria, Switzerland	
Protection class	IP 33	
Ambient conditions	+5 °C to +30 °C	
System warranty	7 years maintenance warranty ***	
Warranty on batteries	10 years or 4,000 cycles ****	
FUNCTIONS	PULSE	PULSE NEO
Energy management system	EMS VS-Pro 2	VS-XMS
PV yield optimisation	✓	✓
PV yield optimisation with weather forecast	-	✓
PV yield optimisation with load forecasting	-	✓ (exp. Q4/2019)
Visualisation of PV production	-	PV sensor, Modbus TCP (Sunspec) *****
Dynamic export limitation	-	Modbus TCP (Sunspec) *****
External relay control	Rutenbeck	Rutenbeck, Shelly, FRITZ!DECT
EV charger control	Indirect	Indirect / direct (exp. Q4/2019) *****
Cascading	Via VARTA Link	Up to 6 VARTA energy storage systems without additional hardware (exp. Q3/2019)
Private consumption optimisation	1-phase	
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	
Smart home interfaces	XML, Modbus TCP	
Smart home compatibility	SolarLog, innogy SmartHome, Smartfox, myGEKKO, my-PV smart water heater, Rutenbeck TCR IP 4	

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 2016 V.2.3 D4, NA-EEA-CH

* 90 % depth of discharge, 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.

** VARTA pulse 6 with reference house 5010 kWh/year and 5 kWp PV system. Simulated according to efficiency guideline 2.0.

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

**** Residual capacity: 80 %.

***** According to compatibility list (available at: www.varta-storage.com/res-compatibility.pdf).