

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 ¹	6.5 kWh ¹
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	90.5 % (RC1), 92.4 % (RC2) System Performance Index ²	
Country licences	Germany, Austria, Switzerland	
Protection class	IP 33	
Ambient conditions	+5 °C to +30 °C	
System warranty	7 years maintenance warranty ³	
Warranty on batteries	10 years or 4,000 cycles ⁴	
FUNCTIONS	PULSE	PULSE NEO
Energy management system	EMS VS-Pro 2	VS-XMS
Smart home interfaces	XML	Modbus TCP (Sunspec)
PV yield optimisation	✓	✓
PV yield optimisation with weather forecast	-	✓
Visualisation of PV production	PV sensor, data logger	PV sensor, Modbus TCP (Sunspec) ⁵
Dynamic export limitation	Via data logger	Modbus TCP (Sunspec) ⁵
External relay control	Rutenbeck	Rutenbeck, Shelly, FRITZ!DECT
EV charger control	Indirect	✓ (exp. Q2/2020) ⁵
Cascading	Via VARTA Link	Up to 6 VARTA energy storage systems without additional hardware
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 compatibility	SolarLog, innogy SmartHome, Smartfox, myGEKKO, my-PV smart water heater, Rutenbeck TCP 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

¹ 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. ² Energy storage inspection 2020 HTW Berlin in reference case 1 (RC1: typical family home with PV system) and reference case 2 (RC2: typical family home with PV system, heat pump and electric car). 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/pulse-neo-compatibility).