

VARTA pulse

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.


Waxman Energy

Waxman Energy Ltd
Grove Mills, Elland
West Yorkshire, HX5 9DZ
Great Britain



VKB-NUMBER

pulse 3 energy storage system	02707 852 901
pulse 6 energy storage system	02707 852 902

► Technical data and facts

SYSTEM DATA	PULSE 3	PULSE 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	UK	
Protection class	IP 33	
Ambient conditions	+5 °C to +30 °C	
System warranty	7 years maintenance warranty ***	
Warranty on batteries	10 years or 10,000 cycles ****	

FUNCTIONS	PULSE
Energy management system	EMS VS-Pro 2
PV yield optimisation	✓
External relay control	Rutenbeck
EV charger control	Indirect
Cascading	Up to five VARTA energy storage systems
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, Marlec Solar iBoost+

STANDARDS

CE-conformity, Low Voltage Directive (LVD) 2014/35/EU, EMC Directive 2014/30/EU, UN 38.3, DIN EN 62109-1:2011, Engineering Recommendation G83/2 2012, G59/3-2 2015 and G59/3-3 2018

* 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 %.