

# ENERGY FOR YOUR BUSINESS.



## ► Technical data and facts

SYSTEM DATA	VARTA FLEX STORAGE E
Capacity range	75 - 750 kWh
Performance range	36 / 80 / 120 kW <sup>1</sup>
Weight	Depending on the number of power-, storage units
Dimensions (w x h x d) in mm	Depending on the number of power-, storage units
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)
Country licenses	Germany, Austria, Switzerland
Protection class	IP 33
Ambient conditions	+ 5 °C to + 30 °C
Sound pressure	Depending on system size <sup>2</sup>
Warranty	Depending on application

STORAGE UNIT	
Name	Storage Unit E 75
Battery capacity	75 kWh <sup>3</sup>
Parallel mode storage units	From n=1 (75 kWh) to n=10 (750 kWh)
C rate	0.5 C
Number of cycles	> 4,000 cycles <sup>4</sup>
Dimensions storage unit (w x h x d) in mm	550 x 2,000 x 670
Weight	707 kg

POWER UNIT	WITHOUT BACK-UP SYSTEM	WITH BACK-UP SYSTEM
Performance range	36 / 80 / 120 kW	36 / 80 / 120 kW
Grid protection	To be carried out separately	To be carried out separately
Dimensions 36 (w x h x d) in mm	600 x 1,900 x 600	600 x 1,900 x 600
Dimensions 80 / 120 (w x h x d) in mm	1,000 x 1,900 x 600	1,200 x 1,900 x 600
Weight	230 / 345 / 385 kg	285 / 545 / 545 kg

FUNCTIONS	
Energy management system	EMS VS-Pro 2
Applications	Self-consumption optimization, peak shaving, islanding <sup>5</sup> , external setpoint <sup>5</sup>
Self consumption optimisation	3-phase, phase symmetrical
Output recording	3-phase via current sensor
Cascading	Up to five VARTA flex storage systems
Readout function / service	Ethernet
Visualisation	VARTA web portal
Smart home interfaces	Modbus TCP
Smart home compatibility	SolarLog

**STANDARDS**  
 CE-conformity, Low Voltage Directive (LVD) 2014/35/EU, EMC Directive 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-4 (2011-09), DIN EN 62109-1:2011, VDE-AR-N 4105:2018-11, VDE-AR-N 4110:2018-11, TOR 2016 V.2.3 D4, UN 38.3, DIN VDE V 0124-100:2013-10

<sup>1</sup> Cos φ=1.  
<sup>2</sup> During fan operation > 75 dB.  
<sup>3</sup> Usable 90 %, capacity measurement at 25 °C with 0,2 C charge and 0,05 C cut-off current and discharge with 0,2 C.  
<sup>4</sup> Residual capacity: 80 %.  
<sup>5</sup> Optional.