



Technical Specifications

Battery Data	
Battery Chemistry	Lithium Iron Phosphate (LiFePo4)
Cell Cycle Life	25±2°C, 0.5C/0.5C, EOL70% ≥ 6000
Cell Characteristics	3.2V/100Ah
Module Characteristics	51.2V/100Ah
Module Configuration	1P16S
Rack Characteristics	614.4V/100Ah
Rack Configuration	1P192S
Rack Charge/Discharge Current	Recommended 50A
	Nominal 100A
	Peak (2mins, 25C) 125A
Number of Racks	6
System Charge/Discharge Current	Recommended 300A
	Nominal 600A
	Peak (2mins, 25C) 750A
System Rated Energy Capacity	245,32kWh
System Nominal Voltage	614.4V
System DC Voltage Range	528V - 677V
Recommended Depth of Discharge	90%
PV Input Data	
Max. DC Input Power	130kW

Max. DC Input Voltage	1000V
Start-Up Voltage	180V
MPPT Range	150V - 850V
Full Load DC Voltage Range	450V - 850V
Rated DC Input Voltage	600V
PV Input Current	16 x 36A
Max. PV Short Circuit Current	16 x 55A
No. of MPPT	16
No. of Strings per MPPT	2
AC Output Data	
Rated AC Output Active Power	100kW
Max AC Output Active Power	110kW
AC Output Rated Current	145A
Max AC Output Rated Current	159,4A
Max. Unbalanced Output Current	166,6A
Max. Continuous AC Passthrough	400A
Peak Power (Off Grid)	150kW, 10s
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Total Harmonic Distortion (THD)	<3% (of nominal power)
Efficiency	
Max. Efficiency	97.6%
Euro Efficiency	97.0%
MPPT Efficiency	99.9%
Battery Efficiency	99.8%
Certifications and Standards	

Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
Dimensions w/o clearances (LxWxH)	6060 x 2440 x 2900 mm
Weight	<10t
Operating Temperature Range	-40-60°C, >45°C Derating
Relative Humidity	5-85%
Cooling concept	HVAC
Communication interfaces	RS485