SUNVEC STORAGE BLOCK

Technical data



	Power module - PCS Cabinet		
Model	MPSS 125K / ... [1] K	MPSS 250K / ... [1] K	MPSS 375K / ... [1] K
Rated power [kVA]	125	250	375
Rated current [A]	182	364	546
Max. current (1 min) [A]	217	434	651
Rated voltage [Vac]	3P / 400 (allowable range 300-460Vac)		
Rated frequency [Hz]	50/60		
Power factor range	1.0 inductive a 1.0 capacitative		
Max. Efficiency [%]	98.9		
THDi [%]	<3 (at rated power)		
THDV [%]	<3 (linear load)		
PCS Cabinet dimensions (W x H x D) [mm]	800 x 2330x 1300		
	Battery module - Cabinet		
Battery type	LFP		
Battery capacity (BOL) [kWh]	260 x n (n=1,2,3)		
Voltage range [Vdc]	650 - 950		
Dimensions of 1 battery cabinet module (W x H x D) [mm]	1400 x 2330 x 1300		
	General		
Degree of protection	IP54		
Cooling system	Forced ventilation		
Type	Transformerless [2]		
Relative humidity	0 - 95% (non-condensing)		
Operating temperature range	-20 to 50°C (derating for >45°C)		
Safety	Early warning system (H_2/VOC) Fire detection system (smoke/heat)		
Fire protection	Passive fire protection system Aerosol fire extinguishing system		
Communications	Potential-free contacts (status indicator, fire alarms, etc.) Touchscreen HMI		
Max. altitude [m.a.s.l.]	<4000m (derating above 3000m)		
Regulations, certifications, and standards [3]	IEC 62477-1, IEC 62116, EN 61000-6-2, EN 61000-6-4, NTS v2.1, UNE 217002:2020, EN 62439-1, EN 62439-2		

[1] X=Battery capacity (kWh)
[2] It is recommended to install a transformer at the equipment output
[3] Consult Vector Energy for other regulations and standards

Technical data



QR Battery Passport included for improved transparency, traceability, and sustainability in the battery value chain.

Battery pack	
Battery Type	LFP
C-Rate	0.5P
Configuration	1P20S
Rated voltage [V]	64
Voltage range [V]	54 - 72
Rated energy (@100%) [kWh]	20
Rated charge and discharge power [kW]	10
Weight [kg]	160
Dimensions [mm]	950 x 430 x 230
Certification	IEC 62619; UN 38.3



Cells	
Cell type	LFP
Cell capacity	314
Rated voltage [V]	3.2
Voltage range [V]	2.7 ~ 3.6
Energy density [Wh/kg]	≥ 168.5