Sigen Energy Storage System

Preliminary

SigenCube	ES261-2H	ES261-2H-A1	Units
DC Side			
Battery type	$LiFePO_4$		
Total energy capacity	261		kWh
Nominal voltage range	676 ~ 936		V
Nominal charge / discharge rate	0.5C	0.38C	
AC Side			
Nominal power	125	99.99	kW
Nominal voltage	380 / 400, 3W+(N)+PE		Vac
Nominal grid frequency	50 / 60		Hz
Total current harmonic distortion	THDi ≤ 1.5%		
Total voltage harmonic distortion	THDv ≤ 2%		
Power factor	1 leading ~ 1 lagging		
Protection			
Safety protection feature	Insulation monitoring, Residual current monitoring, AC overcurrent/overvoltage/short-circuit protection, Type II AC surge protection, Anti-islanding protection		
System General Data			
Dimensions (W / H / D)	940 / 2,380 / 1,325		mm
Weight	2,500		kg
Storage temperature range	-35 ~ 60		°C
Operating temperature range	–30 ~ 55 (Derating at 45°C)		°C
Relative humidity range	0% ~ 100% (non-condensing)		
Max. operating altitude	4,000 (Derating at 3,000m)		m
Cooling	Smart Liquid cooling		
Balance mode	Active balance		
Fire suppression system	Combustible gas detector, Smoke detector, Heat detector, Explosion-proof fan, Alarm sounder, Cabinet-level Aerosol, Top explosion vent, Water-based fire suppression		
System ingress protection rating	IP55		
EMC protection rating	Class B		
Anti-corrosion protection	C4-M		
Communication	WLAN, Fast Ethernet, RS485		
Communication protocol	Modbus-TCP, IEC61850		

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