Sigen Energy Storage System

Preliminary

SigenCube	ES401-2H	ES401-4H	Units
DC Side			
Battery type		$LiFePO_4$	
Total energy capacity		401	kWh
Nominal voltage range		896 ~ 1,152	V
Nominal charge / discharge rate	0.5C	0.25C	
AC Side			
Nominal power	200	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)		1,100 / 2,450 / 1,650	mm
Weight		4,000	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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