

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	0.5P		0.25P	
AC Side (On-grid)				
Nominal output power	200,000		99,990	W
Max. output apparent power	220,000		109,989	VA
Max. output active power (cosΦ=1)	220,000		109,989	W
Nominal voltage			380 / 400, 3P4W	Vac
Nominal grid frequency			50 / 60	Hz
Power factor			1 leading ~ 1 lagging	
Total current harmonic distortion			THDi ≤ 1.5%	
AC Side (Backup) ¹				
Nominal output power	200,000		99,990	W
Max. output apparent power	220,000		109,989	VA
Peak output power (10 seconds)	300,000		149,985	VA
Nominal voltage			380 / 400, 3P4W	Vac
Nominal grid frequency			50 / 60	Hz
Power factor			1 leading ~ 1 lagging	
Total voltage harmonic distortion			THDv ≤ 2%	
Disruption time of backup switch ²			0	ms
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	
Noise			≤ 60	dB
Communication			WLAN, Fast Ethernet, RS485	
Communication protocol			Modbus-TCP, IEC61850	

1. SigenCube must be paired with Sigen Energy Gateway to enable backup operation.
2. This refers to the load-side disruption time. Test conditions: In the open-circuit state of the power grid, the total power of the SigenCube is higher than the total power of the loads.
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