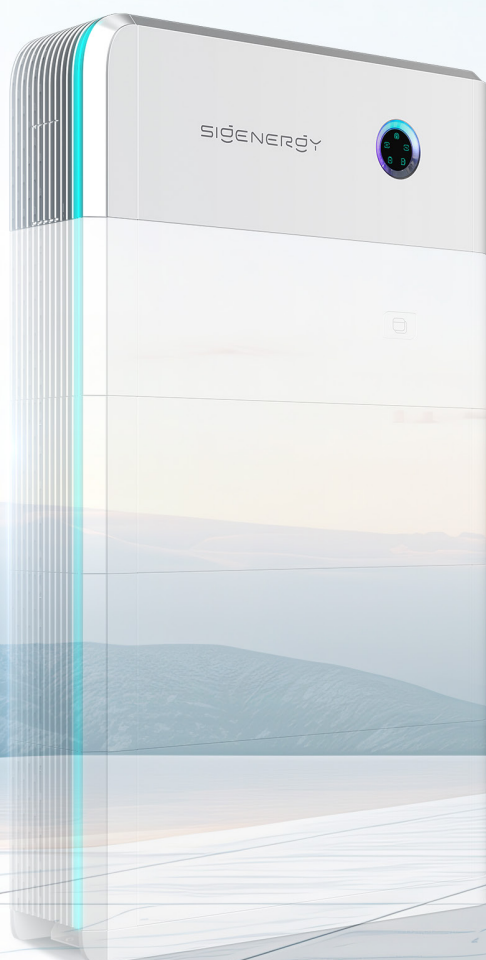


Sigen Energy Controller

1 SKU, field configurable to
3.8/4.8/5.7/7.6/9.6 /11.5 kW



- EMS inside for precise control
- Multi-source black start
- On & off-grid compatibility
- 4 MPPTs with 2:1 DC/AC ratio (oversize PV)
- NEMA 4X system enclosure
- NEC rapid shutdown compliant
- Seamless switching experience
- AFCI function integrated

Sigen Energy Controller Split Phase US

SigenStor EC SP US							
Field Configuration	3.8	4.8	5.7	7.6	9.6	11.5	Units
DC Input (from PV)							
Max. PV power	7680	9600	11520	15360	19200	23000	W
Max. DC input voltage			600				V
Nominal DC input voltage			360				V
Start-up voltage			100				V
MPPT voltage range			50 ~ 550				V
Number of MPP. trackers			4				
Number of PV strings per MPPT			1				
Max. input current per MPPT			16				A
Max. short-circuit current per MPPT			20				A
AC Input / Output (on-grid)							
Nominal output power	3840	4800	5760	7680	9600	11500	W
Max. continuous current	16.0	20.0	24.0	32.0	40.0	48	A
AC switch current rating	20.0	25.0	30.0	40.0	50.0	60.0	A
Nominal output voltage			240 / 120				V
Grid frequency range			59.3 ~ 60.5				Hz
Power factor			0.8 leading ~ 0.8 lagging				
Total current harmonic distortion			THDi < 2%				
Efficiency							
Max. efficiency			97.8%				
AC Output (backup)							
Backup output power @240V	3840	4800	5760	7680	9600	11500	W
Backup output power @120V	1920	2400	2880	3840	4800	5750	W
Peak output power (10 seconds)	8640	8640	8640	17100	17100	17100	W
Nominal output voltage			240 / 120				V
Output frequency range			59.3 ~ 60.5				Hz
Power factor			0.8 leading ~ 0.8 lagging				
Total voltage harmonic distortion			THDv < 2%				
Disruption time of backup switch ¹			0				ms
Battery Connection							
Supported battery module			SigenStor BAT 6.0 / 9.0 US				
Battery module voltage range			300 ~ 600				V
General Data							
Dimensions (W / H / D)			27.6 x 11.8 x 10.2 / 700 x 300 x 260				in / mm
Weight			77.1 / 35				lbs / kg
Storage temperature range			-40 ~ 158 / -40 ~ 70				°F / °C
Operating temperature range			-22 ~ 140 / -30 ~ 60				°F / °C
Relative humidity range			0% ~ 95%				
Max. operating altitude			13123 / 4000				ft / m
Cooling			Smart air cooling				
Communication			WLAN / Fast Ethernet (FE) / RS485 / Sigen CommMod US (4G / 3G)				
Standard Compliance							
Certifications			UL 1741, UL 1741 SB, UL 1741 CRD, IEEE 1547-2018, IEEE1547.1-2020, UL 1998, UL 991, UL 1699B, CP 65, FCC Part 15 Class B				

¹ This refers to the load-side disruption time, to achieve this function Sigen LoadHub needs to be used together with Sigen Energy Controller US and Sigen Battery US. Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Energy Controller is higher than the total power of the home loads.

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