

- Up to 4 MPP. trackers
- •DC/AC ratio up to 2
- Multi-source black start
- IP66 system protection rating

Sigen Energy Controller 8.0-12.0 kW Single Phase

SigenStor EC ¹	8.0 SP	10.0 SP	12.0 SP	Units
DC Input (from PV)				
Max. PV power	16000	20000	24000	W
Max. DC input voltage		600		V
Nominal DC input voltage		350		V
Start-up voltage		100		V
MPPT voltage range		50 ~ 550		V
Number of MPP. trackers	3	4	4	
Number of PV strings per MPPT		1		
Max. input current per MPPT		16		А
Max. short-circuit current per MPPT		20		А
AC Output (on-grid)				
Nominal output power	8000	10000	12000	W
Max. output apparent power	8800	11000	12000	VA
Nominal output current	36.4	45.5	54.6	А
Max. output current	40.0	50.0	54.6	А
Nominal output voltage		220 / 230		V
Nominal grid frequency		50 / 60		Hz
Power factor	0.8 leading ~ 0.8 lagging			
Total current harmonic distortion	THDi < 2%			
Efficiency				
Max. efficiency		97.6%		
European efficiency		97%		
AC Output (backup)				
Peak output power (10 seconds)	12000	15000	15000	W
Nominal output voltage		220 / 230		V
Nominal output frequency		50 / 60		Hz
Power factor	0.8 leading ~ 0.8 lagging			
Total voltage harmonic distortion	<u> </u>	THDv < 2%		
Disruption time of backup switch ²	<u> </u>	0		ms
Battery Connection				
Battery module models		SigenStor BAT 5.0 / 8.0		
Number of modules per controller		1~6		pcs
Battery module voltage range		300 ~ 600		V
Protection				
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ³ , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection			
General Data				
Dimensions (W / H / D)		700 / 300 / 260		mm
Weight	36			kg
Storage temperature range	-40 ~ 70			°C
Operating temperature range	-30 ~ 60			°C
Relative humidity range		0% ~ 95%		
Max. operating altitude	4000			m
Cooling	Smart air cooling			
System ingress protection rating	IP66			
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)			

- 1. Please contact Sigenergy or local distributors for specific countries where sales are available.
- 2. Need to be used together with Sigen Energy Gateway and Sigen Battery. 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.
- 3. This is an optional feature only supported in certain models, please contact Sigenergy for more information.