

Sigen Energy Controller 3.0-6.0 kW Single Phase

SigenStor EC	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units	
DC Input (from PV)								
Max. PV power	6000	7360	8000	9200	10000	12000	W	
Max. DC input voltage		600						
Nominal DC input voltage	350						V	
Start-up voltage	100						V	
MPPT voltage range	50 ~ 550						V	
Number of MPP. trackers	2							
Number of PV strings per MPPT	1							
Max. input current per MPPT	16						Α	
Max. short-circuit current per MPPT	20						А	
AC Output (on-grid)								
Nominal output power	3000	3680	4000	4600	5000	6000	W	
Max. output apparent power	3300	3680	4400	5000	5500	6600	VA	
Nominal output current	13.6	16.0	18.2	20.9	22.7	27.3	Α	
Max. output current	15.0	16.0	20.0	22.7	25.0	30.0	А	
Nominal output voltage	220 / 230 / 240							
Nominal grid frequency	50 / 60						Hz	
Power factor	0.8 leading ~ 0.8 lagging							
Total current harmonic distortion	THDi < 2%							
Efficiency								
Max. efficiency	98.0%							
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%		
AC Output (backup)								
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	W	
Nominal output voltage	220 / 230 / 240							
Nominal output frequency	50 / 60						———— Hz	
Power factor	0.8 leading ~ 0.8 lagging							
Total voltage harmonic distortion	THDV < 2%							
Switch time to backup mode ¹	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							
General Data								
Dimensions (W / H / D)			700 / 30	00 / 245			mm	
Weight	18						kg	
Storage temperature range	-40 ~ 70						°C	
Operating temperature range	-30 ~ 60							
Relative humidity range		0% ~ 95%						
Max. operating altitude		4000						
Cooling			Natural co				m	
System ingress protection rating		IP66						
Communication	\/\/I \/	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)						
Standard Compliance	V V L	, 1 000 2010		3.9011 0011111				
<u> </u>	150 /51 00	100 1 150 /51	00100 0 150 /5	NI 00 477 150 /	EN 01000 0 3	IEO/EN 0303	2.0.0	
Standard ²	IEC/EN 62	109-1, IEC/EN	62109-2, IEC/E	IN 024//, IEC/	בוז סוטטט-6-1,	IEC/EN DIUU	U-10-Z	

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.

^{2.} For all standards refer to the certificates category in the Sigenergy website.