

Sigen Hybrid Inverter 3.0–6.0 kW Single Phase

Sigen Hybrid	3.0 SP2	5.0 SP2	6.0 SP2	Units
DC Input (from PV)				
Max. PV power	6000	10000	12000	W
Max. DC input voltage ¹		600		V
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		A
Max. short-circuit current per MPPT		22		A
Battery Connection				
Battery controller models	SigenStor BC			
Battery module models	SigenStor BAT series			
Number of modules per controller		1 ~ 6		pcs
Battery module voltage range		300 ~ 600		V
AC Output (on-grid)				
Nominal output power	3000	5000	6000	W
Max. output apparent power	3300	5500	6600	VA
Nominal output current	13.6	22.7	27.3	A
Max. output current	15.0	25.0	30.0	A
Nominal output voltage		220 / 230 / 240		V
Nominal grid frequency		50 / 60		Hz
Power factor		0.8 leading ~ 0.8 lagging		
Total current harmonic distortion		THDi < 3%		
AC Output (backup)				
Peak output power (10 seconds)	4500	7500	9000	W
Nominal output voltage		220 / 230 / 240		V
Nominal output frequency		50 / 60		Hz
Power factor		0.8 leading ~ 0.8 lagging		
Total voltage harmonic distortion		THDv < 3%		
Disruption time of backup switch ²		0		ms
Efficiency				
Max. efficiency		98.6%		
European efficiency	98.0%	98.3%	98.3%	
Protection				
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter, AC overcurrent/overvoltage/short-circuit protection, Type II DC/AC surge protection, Anti-islanding protection			
General Data				
Dimensions (W / H / D)	373 / 473 / 99			mm
Weight	11.5			kg
Storage temperature range	-40 ~ 70			°C
Operating temperature range	-30 ~ 60			°C
Relative humidity range	0% ~ 100%			
Max. operating altitude	4000			m
Cooling	Natural convection			
System ingress protection rating	IP66			
Installation method	Wall-mounted			
Night consumption		2.5		W
Noise		25		dB

1. The inverter will initiate protection if the input voltage exceeds the MPPT operating voltage range.

2. This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Energy Controller 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.