

Sigen Hybrid Inverter 2.0–6.0 kW Single Phase

Sigen Hybrid	2.0 SP2	2.5 SP2	3.0 SP2	3.6 SP2	4.0 SP2	4.6 SP2	5.0 SP2	6.0 SP2	Units	
DC Input (from PV)										
Max. PV power	4000	5000	6000	7360	8000	9200	10000	12000	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									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	2000	2500	3000	3680	4000	4600	5000	6000	W	
Max. output apparent power	2200	2500	3300	3680	4400	5000	5500	6600	VA	
Nominal output current	9.1	11.4	13.6	16.0	18.2	20.9	22.7	27.3	A	
Max. output current	10.0	11.4	15.0	16.0	20.0	22.7	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)	3000	3750	4500	5520	6000	6900	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 ¹									0	ms
Efficiency										
Max. efficiency									98.6%	
European efficiency	97.5%	97.5%	98.0%	98.1%	98.2%	98.3%	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	
Communication									WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)	
Installation method									Wall-mounted	
Night consumption									2.5	W
Noise									25	dB

1. This document reflects current technology and is subject to change without notice. Refer to the Sigenenergy website for the latest information.