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 Sigenergy website for the latest information.