



SIGENERGY



Sigen Hybrid Inverter

2.0-6.0 kW Single Phase

- Battery ready for future expansion
- Slimmest design, less intall. requirements
- Fan-less design, powerful yet quiet
- IP66 protection rating, worry-free usage

NEW

Sigen Hybrid Inverter 2.0–6.0 kW Single Phase

Preliminary

Sigen Hybrid	2.0 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	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
AC Output (on-grid)								
Nominal output power	2000	3000	3680	4000	4600	5000	6000	W
Max. output apparent power	2200	3300	3680	4400	5000	5500	6600	VA
Nominal output current	9.1	13.6	16.0	18.2	20.9	22.7	27.3	A
Max. output current	10.0	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%				
Efficiency								
Max. efficiency	98.3%	98.4%	98.5%	98.5%	98.5%	98.5%	98.5%	
European efficiency	96.8%	97.4%	97.6%	97.9%	97.9%	97.9%	97.9%	
Additional features								
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
Peak output power (10 seconds)	3000	4500	5520	6000	6900	7500	9000	W
Nominal output voltage				220 / 230 / 240				V
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)				365 / 460 / 99				mm
Weight				< 11				kg
Storage temperature range				-40 ~ 70				°C
Operating temperature range				-30 ~ 60				°C
Relative humidity range				0% ~ 95%				
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				≤ 3				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.