

Sigen Hybrid Inverter

3.0 – 6.0 kW Single Phase



- Battery ready, future proof
- DC ground-fault protection
- DC/AC ratio up to 2
- Dual MPP trackers
- IP66 protection rating

Sigen Hybrid Inverter 3.0–6.0 kW Single Phase

Sigen Hybrid	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units	
DC Input								
Max. PV power	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							20	A
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	A	
Max. output current	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 < 2%	
Efficiency								
Max. efficiency							98.0%	
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%		
Additional Features								
Compatible battery module							SigenStor BAT 5.0 / 8.0	
Number of modules per controller							1 ~ 6	pcs
Battery module voltage range							300 ~ 600	V
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	W	
Nominal output voltage							220 / 230 / 240	V
General Data								
Dimensions (W / H / D)							700 / 300 / 268	mm
Weight							18	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	
Ingress protection rating							IP66	
Installation method							Wall-mounted	
Communication							WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)	
Standard Compliance								
Standard ¹							IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2	

1. For all standards refer to the certificates category in the Sigenenergy website.