



Sigen Hybrid Inverter

Single Phase

- Battery ready, future proof
- DC/AC ratio up to 2
- 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
Protection								
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ¹ , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection							
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 ²	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2							

- ¹ This is an optional feature only supported in certain models, please contact Sigenergy for more information.
- ² For all standards refer to the certificates category in the Sigenergy website.