

Sigen Hybrid Inverter

5.0 – 25.0kW Three Phase



- Battery ready, future proof
- DC ground-fault protection
- DC/AC ratio up to 1.6
- Up to 4 MPP trackers
- IP66 protection rating

Sigen Hybrid Inverter 5.0–25.0 kW Three Phase

Sigen Hybrid	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	Units	
DC Input											
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	W	
Max. DC input voltage										1100	V
Nominal DC input voltage										600	V
Start-up voltage										180	V
MPPT voltage range										160 ~ 1000	V
Number of MPP trackers	2			3			4				
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	5000	6000	8000	10000	12000	15000	17000	20000	25000	W	
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	VA	
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	A	
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	A	
Nominal output voltage										380 / 400	V
Nominal grid frequency										50 / 60	Hz
Power factor										0.8 leading ~ 0.8 lagging	
Total current harmonic distortion										THDi < 2%	
Efficiency											
Max. efficiency	98.1%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%		
European efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%		
Additional Features											
Compatible battery module										SigenStor BAT 5.0 / 8.0	
Number of modules per controller										1 ~ 6	pcs
Battery module voltage range										600 ~ 900	V
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	W	
Nominal output voltage										380 / 400	V
Protection											
Safety protection feature	DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Type II DC/AC surge protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection.										
General Data											
Dimensions (W / H / D)										700 / 300 / 283	mm
Weight										36	kg
Storage temperature range										-40 ~ 70	°C
Operating temperature range										-30 ~ 60	°C
Relative humidity range										0% ~ 95%	
Max. operating altitude										4000	m
Cooling										Smart air cooling	
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 61000-6-1, IEC/EN 61000-6-2										

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