



Sigen Hybrid Inverter

5.0 – 30.0 kW Three Phase



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

Sigen Hybrid Inverter 5.0–30.0 kW Three Phase ¹

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	30.0 TP	Units		
DC Input													
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	48000	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	30000	W		
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	33000	VA		
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	45.5	A		
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	50.0	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%	98.4%			
European efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%	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	36000	W		
Nominal output voltage						380 / 400							V
Protection													
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ² , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding 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 ³	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2												

1. Sigen Hybrid Inverter 30.0 kW Three Phase is only available in specific regions. Please contact Sigenenergy or local distributors for details.
2. This is an optional feature only supported in certain models, please contact Sigenenergy for more information.
3. For all standards refer to the certificates category on the Sigenenergy website.

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