

## Sigen Hybrid Inverter

3.0 - 12.0 kW Single Phase

- Battery ready, future proof
- DC/AC ratio up to 2
- Up to 4 MPP. trackers
- IP66 protection rating

## Sigen Hybrid Inverter 3.0-12.0 kW Single Phase 1

Sigen Hybrid	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	8.0 SP	10.0 SP	12.0 SP	Unit
DC Input				•						
Max. PV power	6000	7360	8000	9200	10000	12000	16000	20000	24000	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			3	4	4	
Number of PV strings per MPPT					1					
Max. input current per MPPT					16					А
Max. short-circuit current per MPPT					20					А
AC Output (on-grid)										
Nominal output power	3000	3680	4000	4600	5000	6000	8000	10000	12000	W
Max. output apparent power	3300	3680	4400	5000	5500	6600	8800	11000	12000	VΑ
Nominal output current	13.6	16.0	18.2	20.9	22.7	27.3	36.4	45.5	54.6	А
Max. output current	15.0	16.0	20.0	22.7	25.0	30.0	40.0	50.0	54.6	А
Nominal output voltage			220 / 23	30 / 240				220 / 230	)	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%	98.0%	98.0%	98.0%	98.0%	98.0%	97.6%	97.6%	97.6%	
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%	97.0%	97.0%	97.0%	
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	12000	15000	15000	W
Nominal output voltage		220 / 230 / 240 220 / 230					)	V		

Safety protection feature

DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter <sup>2</sup>, AC overcurrent/overvoltage/short-circuit protection.

Type II DC/AC surge protection, Anti-islanding protection

	Type II DC/AC surge protection, Anti-Islanding protection							
General Data								
Dimensions (W / H / D)	700 / 300 / 268 700 / 300 / 28		mm					
Weight	18	36	kg					
Storage temperature range	-40 ~ 70		°C					
Operating temperature range	-30 ~ 60							
Relative humidity range	0% ~ 95%	0% ~ 95%						
Max. operating altitude	4000							
Cooling	Natural convection	Smart air cooling						
Ingress protection rating	IP66							
Installation method	Wall-mounted							
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)							
Standard Compliance								
Standard <sup>3</sup>	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2							

- 1. Sigen Hybrid Inverter 8.0-12.0 kW Single Phase is only available in specific regions. Please contact Sigenergy or local distributors for details.
- 2. This is an optional feature only supported in certain models, please contact Sigenergy for more information.
- 3. For all standards refer to the certificates category on the Sigenergy website.

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