



# 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 <sup>1</sup>

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	Units	
<b>DC Input</b>											
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										A
Max. short-circuit current per MPPT	20										A
<b>AC Output (on-grid)</b>											
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	VA	
Nominal output current	13.6	16.0	18.2	20.9	22.7	27.3	36.4	45.5	54.6	A	
Max. output current	15.0	16.0	20.0	22.7	25.0	30.0	40.0	50.0	54.6	A	
Nominal output voltage	220 / 230 / 240						220 / 230			V	
Nominal grid frequency	50 / 60										Hz
Power factor	0.8 leading ~ 0.8 lagging										
Total current harmonic distortion	THDi < 2%										
<b>Efficiency</b>											
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%		
<b>Additional Features</b>											
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	
<b>Protection</b>											
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										
<b>General Data</b>											
Dimensions (W / H / D)	700 / 300 / 268						700 / 300 / 283			mm	
Weight	18						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	Natural convection						Smart air cooling				
Ingress protection rating	IP66										
Installation method	Wall-mounted										
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)										
<b>Standard Compliance</b>											
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 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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