



# Sigen Hybrid Inverter

**3.0 – 6.0kW** Single Phase  
**5.0 – 12.0kW** Three Phase

**NEW**

- Battery ready for future expansion
- Slimmest design, less install. requirements
- Fan-less design, powerful yet quiet
- IP66 protection rating, worry-free usage

## Sigen Hybrid Inverter 3.0–6.0 kW Single Phase NEW Preliminary

Sigen Hybrid	3.0 SP2	5.0 SP2	6.0 SP2	Units
<b>DC Input (from PV)</b>				
Max. PV power	6000	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		22		A
<b>AC Output (on-grid)</b>				
Nominal output power	3000	5000	6000	W
Max. output apparent power	3300	5500	6600	VA
Nominal output current	13.6	22.7	27.3	A
Max. output current	15.0	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 < 3%		
<b>Efficiency</b>				
Max. efficiency	98.4%	98.5%	98.5%	
European efficiency	97.4%	97.9%	97.9%	
<b>Additional features</b>				
Battery controller models	SigenStor BC			
Battery module models	SigenStor BAT series			
Number of modules per controller	1 ~ 6			pcs
Battery module voltage range	300 ~ 600			
Peak output power (10 seconds)	4500	7500	9000	W
Nominal output voltage	220 / 230 / 240			
<b>Protection</b>				
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter, AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection			
<b>General Data</b>				
Dimensions (W / H / D)	365 / 460 / 99			mm
Weight	< 11			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			
System ingress protection rating	IP66			
Installation method	Wall-mounted			
Night consumption	≤ 3			W
Noise	≤ 25			dB

1. This document reflects current technology and is subject to change without notice. Refer to the Sigenery website for the latest information.

## Sigen Hybrid Inverter 5.0–12.0 kW Three Phase NEW Preliminary

Sigen Hybrid	5.0 TP2	8.0 TP2	10.0 TP2	12.0 TP2	Units
<b>DC Input (from PV)</b>					
Max. PV power	10000	16000	20000	24000	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				
Number of PV strings per MPPT	1	1/2			
Max. input current per MPPT	16	16/32		16/32	A
Max. short-circuit current per MPPT	22	22/44		22/44	A
<b>AC Output (on-grid)</b>					
Nominal output power	5000	8000	10000	12000	W
Max. output apparent power	5500	8800	11000	13200	VA
Nominal output current	7.6	12.2	15.2	18.2	A
Max. output current	8.4	13.4	16.7	20.1	A
Nominal output voltage	220/380, 230/400, 240/415, 3W+N+PE				
Nominal grid frequency	50 / 60				
Power factor	0.8 leading ~ 0.8 lagging				
Total current harmonic distortion	THDi < 3%				
<b>Efficiency</b>					
Max. efficiency	98.4%	98.7%	98.7%	98.7%	
European efficiency	97.5%	98.0%	98.1%	98.2%	
<b>Additional features</b>					
Battery controller models	SigenStor BC				
Battery module models	SigenStor BAT series				
Number of modules per controller	1 ~ 6				pcs
Battery module voltage range	600 ~ 900				
Peak output power (10 seconds)	7500	12000	15000	18000	W
Nominal output voltage	220/380, 230/400, 240/415, 3W+N+PE				
<b>Protection</b>					
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter, AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection				
<b>General Data</b>					
Dimensions (W / H / D)	475 / 568 / 99				mm
Weight	< 17				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				
System ingress protection rating	IP66				
Installation method	Wall-mounted				
Night consumption	≤ 5				W
Noise	≤ 29				dB

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