



SIGENERGY



Sigen Hybrid Inverter

5.0 – 6.0kW Single Phase

5.0 – 25.0kW Three Phase

- Battery ready, future proof
- DC ground-fault protection
- DC/AC ratio up to 2 (single phase)
- Up to 4 MPP. trackers (three phase)
- IP66 protection rating

Sigen Hybrid Inverter 5.0–6.0 kW Single Phase Australia

Sigen Hybrid	5.0 SP	6.0 SP	Units
DC Input			
Max. PV power	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	20		A
AC Output (on-grid)			
Nominal output power	4999	6000	W
Max. output apparent power	4999	6600	VA
Nominal output current	21.7	27.3	A
Max. output current	21.7	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 < 2%		
Efficiency			
Max. efficiency	98.0%		
European efficiency	97.4%		
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
Off-grid peak output power (10 seconds)	7500	9000	W
Off-grid peak output current (10 seconds)	34.1	40.9	A
Nominal output voltage	220 / 230 / 240		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 / 268		mm
Weight	18		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		
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 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2		

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

Sigen Hybrid Inverter 5.0–25.0 kW Three Phase Australia

Sigen Hybrid	5.0 TP	10.0 TP	15.0 TP	25.0 TP	Units
DC Input					
Max. PV power	8000	16000	24000	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			
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	9999	15000	25000	W
Max. output apparent power	5500	9999	15000	27500	VA
Nominal output current	7.6	14.4	21.7	38.0	A
Max. output current	8.4	14.4	21.7	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		98.4%			
European efficiency		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
Off-grid peak output power (10 seconds)	7500	15000	22500	30000	W
Off-grid peak output current (10 seconds)	11.4	22.8	34.2	45.5	A
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				

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