



SIGENERGY



Sigen Hybrid Inverter

5.0 – 12.0kW Single Phase

5.0 – 30.0kW Three Phase

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

Sigen Hybrid Inverter 5.0–12.0 kW Single Phase Australia

Sigen Hybrid	5.0 SP	6.0 SP	8.0 SP	10.0 SP	12.0 SP	Units
DC Input						
Max. PV power	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	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
AC Output (on-grid)						
Nominal output power	4999	6000	8000	9999	12000	W
Max. output apparent power	4999	6600	8800	9999	12000	VA
Nominal output current	21.7	27.3	36.4	43.4	54.6	A
Max. output current	21.7	30.0	40.0	43.4	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%				
Efficiency						
Max. efficiency	98.0%	98.0%	97.6%	97.6%	97.6%	
European efficiency	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
Off-grid peak output power (10 seconds)	7500	9000	12000	15000	18000	W
Off-grid peak output current (10 seconds)	34.1	40.9	54.6	68.2	81.8	A
Nominal output voltage	220 / 230 / 240			220 / 230		V
Protection						
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ¹ , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection					
General Data						
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)					
Standard Compliance						
Standard ²	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2, AS 4777					

1. This is an optional feature only supported in certain models, please contact Sigenergy for more information.
2. For all standards refer to the certificates category on the Sigenergy website.

Sigen Hybrid Inverter 5.0–30.0 kW Three Phase Australia

Sigen Hybrid	5.0 TP	10.0 TP	15.0 TP	20.0 TP	25.0 TP	30.0 TP	Units
DC Input							
Max. PV power	8000	16000	24000	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	3	4	4	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	9999	15000	20000	25000	29999	W
Max. output apparent power	5000	9999	15000	22000	27500	29999	VA
Nominal output current	7.2	14.4	21.7	30.4	38.0	43.4	A
Max. output current	7.2	14.4	21.7	33.4	41.8	43.4	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%	98.3%	98.3%	98.3%	98.3%	98.4%	
European efficiency	96.1%	97.5%	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
Off-grid peak output power (10 seconds)	7500	15000	22500	30000	30000	36000	W
Off-grid peak output current (10 seconds)	11.4	22.8	34.2	45.6	45.6	54.7	A
Nominal output voltage	380 / 400						V
Protection							
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ¹ , 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	36	36	36	36	38	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 ²	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, AS 4777						

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