

Sigen Hybrid Inverter 3.0–6.0 kW Single Phase Australia

Sigen Hybrid	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units
DC Input							
Max. PV power	6000	7360	8000	9200	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	3000	3680	4000	4600	4999	6000	W
Max. output apparent power	3300	3680	4400	4999	4999	6600	VA
Nominal output current	13.6	16.0	18.2	20.9	21.7	27.3	A
Max. output current	15.0	16.0	20.0	21.7	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	97.0%	97.1%	97.2%	97.3%	97.4%	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
Nominal output voltage			220 / 230 / 240				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						
Inverter topology	Non-isolation						
Protective class	I						
Overvoltage category	DC II, AC III						
Active anti-islanding protection	Frequency shift						
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)						

1. This is an optional feature only supported in certain models, please contact Sigenenergy for more information.

2. For all standards refer to the certificates category in the Sigenenergy website.

* Country of manufacture: China

Signen PV Inverter 3.0–6.0 kW Single Phase Australia

Signen PV Max	3.0 SP	4.0 SP	5.0 SP	6.0 SP	Units
DC Input					
Max. PV power	6000	8000	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					
Nominal output power	3000	4000	4999	6000	W
Max. output apparent power	3300	4400	4999	6600	VA
Nominal output current	13.6	18.2	21.7	27.3	A
Max. output current	15.0	20.0	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	97.0%	97.2%	97.4%	97.4%	
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				
Inverter topology	Non-isolation				
Protective class	I				
Overvoltage category	DC II, AC III				
Active anti-islanding protection	Frequency shift				
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 / Signen CommMod (4G/3G/2G)				

1. This is an optional feature only supported in certain models, please contact Signenergy for more information.

2. For all standards refer to the certificates category in the Signenergy website.

* Country of manufacture: China