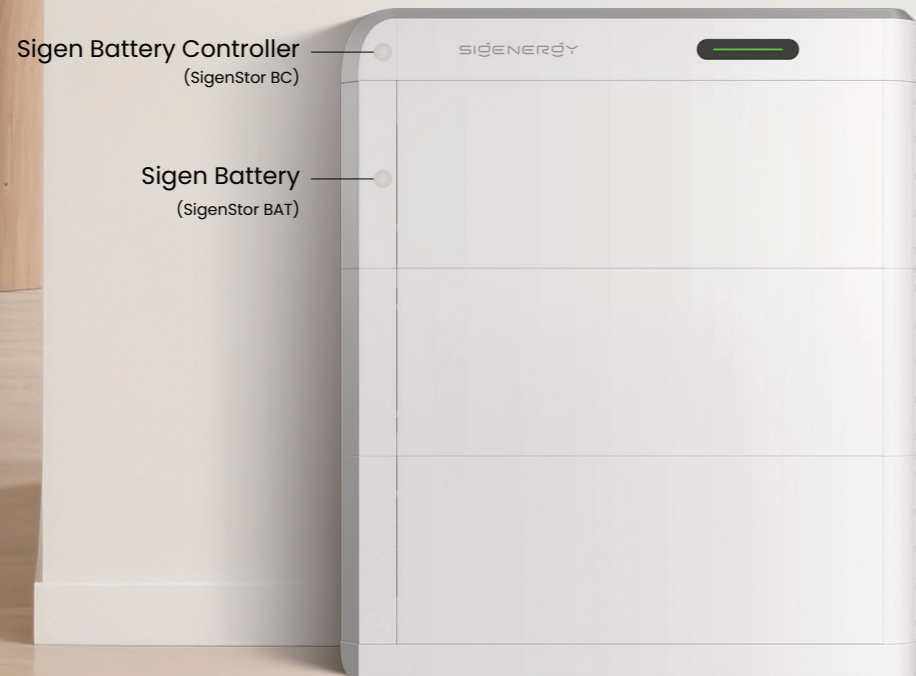
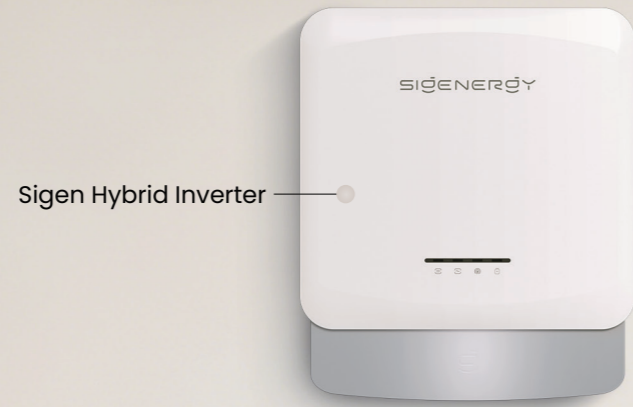




Sigen Hybrid Inverter

Harmoniously Complementing Your Home



**99mm
ultra slim design**




**25 dB
Super silent**



IP66



Wide operating temperature
From -30 °C to 60 °C



- 99.0%**
Industry-leading max. efficiency
- 200%**
Peak output power while off-grid
(Three phase, 10 seconds)
- 200%**
DC/AC ratio for higher yield

Sigen Hybrid Inverter 3.0–6.0 kW Single Phase Australia

Sigen Hybrid	3.0 SP2	5.0 SP2	6.0 SP2	Units
DC Input (from PV)				
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

Battery Connection

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			V

AC Output (on-grid)

Nominal output power	3000	4999	6000	W
Max. output apparent power	3300	4999	6600	VA
Nominal output current	13.6	21.7	27.3	A
Max. output current	15.0	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 < 3%			

AC Output (backup)

Peak output power (10 seconds)	4500	7500	9000	W
Nominal output voltage	220 / 230 / 240			V
Nominal output frequency	50 / 60			Hz
Power factor	0.8 leading ~ 0.8 lagging			
Total voltage harmonic distortion	THDv < 3%			
Disruption time of backup switch ¹	0			ms

Efficiency

Max. efficiency		98.6%		
European efficiency	97.5%	98.3%	98.3%	

Protection

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

General Data

Dimensions (W / H / D)	373 / 473 / 99			mm
Weight	11.5			kg
Storage temperature range	-40 ~ 70			°C
Operating temperature range	-30 ~ 60			°C
Relative humidity range	0% ~ 100%			
Max. operating altitude	4000			m
Cooling	Natural convection			
System ingress protection rating	IP66			
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)			
Installation method	Wall-mounted			
Night consumption	2.5			W
Noise	25			dB

- This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Battery and Sigen Hybrid Inverter. Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Hybrid Inverter is higher than the total power of the home loads.
- This document reflects current technology and is subject to change without notice. Refer to the Sigen website for the latest information.

Sigen Hybrid Inverter 5.0–12.0 kW Three Phase Australia

Sigen Hybrid	5.0 TP2	6.0 TP2	8.0 TP2	10.0 TP2	12.0 TP2	Units
DC Input (from PV)						
Max. PV power	10000	12000	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

Battery Connection

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					V

AC Output (on-grid)

Nominal output power	5000	6000	8000	9999	12000	W
Max. output apparent power	5000	6600	8800	9999	13200	VA
Nominal output current	7.2	9.1	12.2	14.4	18.2	A
Max. output current	7.2	10.0	13.4	14.4	20.1	A
Nominal output voltage	220/380, 230/400, 240/415 (3W/N+PE)					V
Nominal grid frequency	50 / 60					Hz
Power factor	0.8 leading ~ 0.8 lagging					
Total current harmonic distortion	THDi < 3%					

AC Output (backup)

Peak output power (10 seconds)	10000	12000	16000	20000	24000	W
Nominal output voltage	220/380, 230/400, 240/415 (3W/N+PE)					V
Nominal output frequency	50 / 60					Hz
Power factor	0.8 leading ~ 0.8 lagging					
Total voltage harmonic distortion	THDv < 3%					
Disruption time of backup switch ¹	0					ms

Efficiency

Max. efficiency	98.9%	99.0%	99.0%	99.0%	99.0%	
European efficiency	98.1%	98.5%	98.5%	98.5%	98.6%	

Protection

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

General Data

Dimensions (W / H / D)	477 / 568 / 99			mm
Weight	19.5			kg
Storage temperature range	-40 ~ 70			°C
Operating temperature range	-30 ~ 60			°C
Relative humidity range	0% ~ 100%			
Max. operating altitude	4000			m
Cooling	Natural convection			
System ingress protection rating	IP66			
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)			
Installation method	Wall-mounted			
Night consumption	3			W
Noise	28			dB

- This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Battery and Sigen Hybrid Inverter. Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Hybrid Inverter is higher than the total power of the home loads.
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