



SIGENERGY



Sigen Hybrid Inverter

3.0–6.0 kW Single Phase

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

NEW

Sigen Hybrid Inverter 3.0–6.0 kW Single Phase Australia

Preliminary

Sigen Hybrid	3.0 SP2 AU	5.0 SP2 AU	6.0 SP2 AU	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			
Battery module voltage range	300 ~ 600			
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	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	230 / 240			V
Nominal output frequency	50 / 60			Hz
Power factor	0.8 leading ~ 0.8 lagging			
Total voltage harmonic distortion	THDi < 3%			
Disruption time of backup switch ¹	0			ms
Efficiency				
Max. efficiency	98.6%			
European efficiency	98.0%	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% ~ 95%			
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

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