



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		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		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.