



SIGENERGY



Sigen Hybrid Inverter

3.0–6.0 kW Single Phase

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

NEW

Signen Hybrid Inverter 3.0–6.0 kW Single Phase Australia

Preliminary

Signen 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
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%		
Efficiency				
Max. efficiency	98.4%	98.5%	98.5%	
European efficiency	97.4%	97.9%	97.9%	
Additional features				
Battery controller models	SignenStor BC			
Battery module models	SignenStor BAT series			
Number of modules per controller	1 ~ 6			pcs
Battery module voltage range	300 ~ 600			
Peak output power (10 seconds)	4500	7500	9000	W
Nominal output voltage	230 / 240			
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			
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)	365 / 460 / 99			mm
Weight	< 11			kg
Storage temperature range	-40 ~ 70			
Operating temperature range	-30 ~ 60			
Relative humidity range	0% ~ 95%			
Max. operating altitude	4000			
Cooling	Natural convection			
System ingress protection rating	IP66			
Communication	WLAN / Fast Ethernet / RS485 / Signen CommMod (4G/3G/2G)			
Installation method	Wall-mounted			
Night consumption	≤ 3			W
Noise	≤ 25			dB

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