



SIGENERGY



Sigen Hybrid Inverter

5.0-12.0 kW Three Phase

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

NEW

Sigen Hybrid Inverter 5.0-12.0 kW Three Phase Australia

Preliminary

Sigen Hybrid	5.0 TP2 AU	6.0 TP2 AU	8.0 TP2 AU	10.0 TP2 AU	12.0 TP2 AU	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
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			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%			
Efficiency						
Max. efficiency	98.4%	98.7%	98.7%	98.7%	98.7%	
European efficiency	97.5%	97.7%	98.0%	98.1%	98.2%	
Additional features						
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
Peak output power (10 seconds)	7500	9000	12000	15000	18000	W
Nominal output voltage			230/400, 240/415 (3W/N+PE)			V
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)			475 / 568 / 99			mm
Weight			< 17			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			≤ 5			W
Noise			≤ 29			dB

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