



SIGENERGY



Sigen Hybrid Inverter

5.0-12.0 kW Three 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 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
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	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%			
AC Output (backup)						
Peak output power (10 seconds)	7500	9000	12000	15000	18000	W
Nominal output voltage			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			THDi < 3%			
Disruption time of backup switch ¹			0			ms
Efficiency						
Max. efficiency	98.9%	99.0%	99.0%	99.0%	99.0%	
European efficiency	98.3%	98.5%	98.5%	98.5%	98.5%	
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% ~ 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				3		W
Noise				28		dB

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