



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
<b>DC Input (from PV)</b>						
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
<b>Battery Connection</b>						
Battery controller models	SigenStor BC					
Battery module models	SigenStor BAT series					
Number of modules per controller	1 ~ 6					
Battery module voltage range	300 ~ 600					
<b>AC Output (on-grid)</b>						
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%					
<b>AC Output (backup)</b>						
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 <sup>1</sup>	0					ms
<b>Efficiency</b>						
Max. efficiency	98.9%	99.0%	99.0%	99.0%	99.0%	
European efficiency	98.3%	98.5%	98.5%	98.5%	98.5%	
<b>Protection</b>						
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					
<b>General Data</b>						
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.