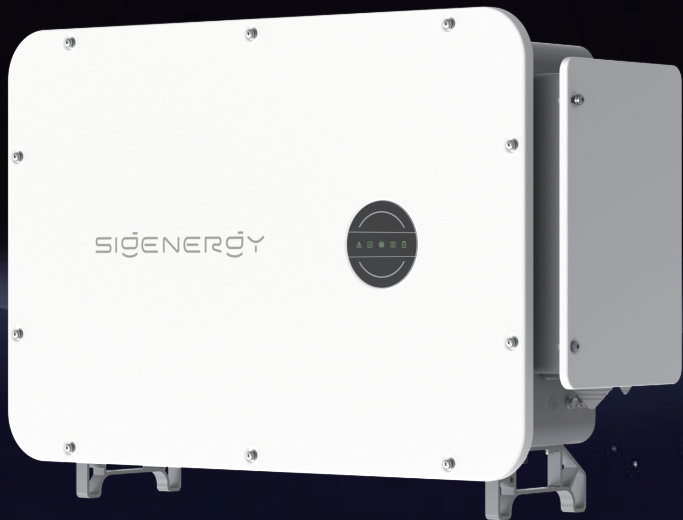




Sigen PV Inverter

50.0 / 99.9 / 110.0 / 125.0 kW



- Smaller and lighter, easier installation and transportation
- Built-in EMS, supports 100 units in parallel without data logger
- Industry-leading 500m AFCI, top-tier safety across applications
- On-site self-power supply, removes the need for temporary power
- IP66 protection rating, ensuring worry-free outdoor deployment



Sigen PV Inverter 50.0 / 99.9 / 110.0 / 125.0 kW Australia

Sigen PV	50M1-AU	99.9M1-AU	110M1-AU	125M1-AU	Units
DC Input					
Max. PV input power	100,000	199,800	220,000	220,000	Wp
Max. DC input voltage ¹			1,100		V
Nominal DC input voltage			600		V
Start-up voltage			180		V
MPPT voltage range			160 ~ 1,000		V
Number of MPP trackers	4	8	8	8	
Number of PV strings per MPPT			2		
Max. input current per MPPT			40		A
Max. short-circuit current per MPPT			60		A
AC Output					
Nominal output active power	50,000	99,900	110,000	125,000	W
Max. output apparent power	50,000	99,900	110,000	125,000	VA
Max. output active power (cosΦ=1)	50,000	99,900	110,000	125,000	W
Nominal output current	72.5	144.8	159.4	181.2	A
Max. output current	72.5	144.8	159.4	181.2	A
Nominal output voltage			400, 3W+(N)+PE		Vac
Nominal grid frequency			50 / 60		Hz
Power factor			0.8 leading ~ 0.8 lagging		
Total current harmonic distortion	THDi < 3%	THDi < 2%	THDi < 2%	THDi < 2%	
Efficiency					
Max. efficiency			98.6%		
European efficiency	98.3%	98.4%	98.4%	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 surge protection (Type I + II optional), Type II AC surge protection, Anti-islanding protection				
General Data					
Dimensions (W / H / D)			918 / 640 / 340		mm
Weight	69	72	72	83	kg
Nighttime power consumption			< 3.5		W
Storage temperature range			-40 ~ 70		°C
Operating temperature range			-30 ~ 60		°C
Relative humidity range			0% ~ 100%		
Max. operating altitude			5,000 (Derating at 4,000m)		m
PV connection type			H4 Pro (Max. 6 mm²)		
AC connection type			OT / DT terminal (Max. 240 mm²)		
Cooling			Smart air cooling		
Ingress protection rating			IP66		
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)				
Standard Compliance					
Standard ²	IEC 62109-1:2010, IEC 62109-2:2011, IEC / EN 61000-6-1, IEC / EN 61000-6-2, AS/NZS 4777.2:2020+A1:2024				

1. The inverter will initiate protection if the input voltage exceeds the MPPT operating voltage range.
2. For all standards refer to the certificates category on the Sigenenergy website.

Disclaimer: The information in this file is provided on an "as is" basis. To the fullest extent permitted by law, Sigenenergy Technology Co., Ltd. excludes all representations and warranties relating to this file and its contents or which is or may be provided by any affiliates or any other third party, including in relation to any inaccuracies or omissions in this file.