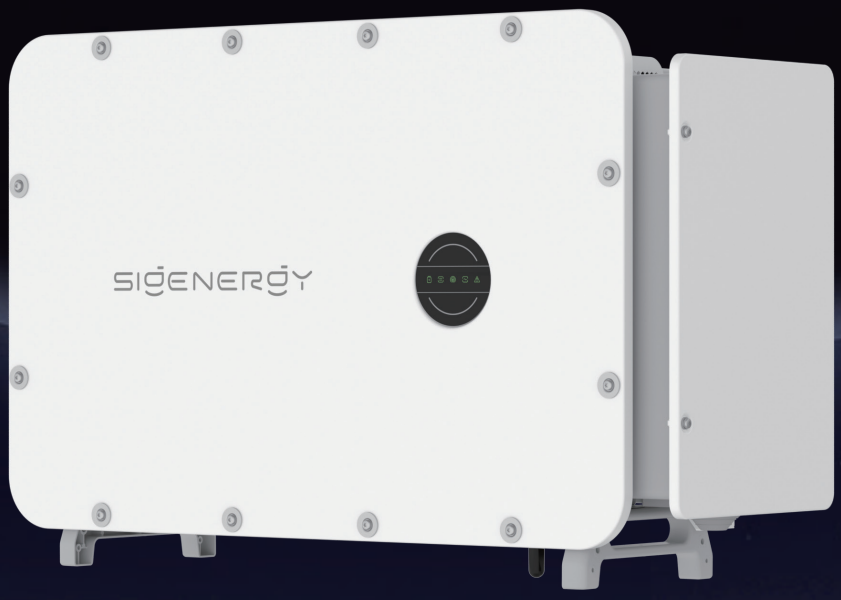
SIGENERGY

Sigen PV Inverter

150.0 / 166.6 kW



- 166.6kW industry new power benchmark, engineered for max. project value
- Built-in EMS, supports 100 units in parallel without data logger
- Industry-leading 500m AFCI, top-tier safety across applications
- IP66 protection rating, ensuring worry-free outdoor deployment

Enjoy Green Energy

Sigen PV Inverter 150.0 / 166.6 kW

Preliminary

Sigen PV	150M1	166M1	Units
DC Input			
Max. PV input power	270,000	270,000	Wp
Max. DC input voltage [1]	1,100		V
Nominal DC input voltage	600 @380/400 Vac, 720 @480 Vac		V
Start-up voltage	180		V
MPPT voltage range	160 ~ 1,000		V
Number of MPP. trackers	9		
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	150,000	166,600	W
Max. output apparent power	165,000	183,260	VA
Max. output active power (cosΦ=1)	165,000	183,260	W
Nominal output current @380 Vac	227.9	253.1	A
Nominal output current @400Vac	217.4	241.4	A
Nominal output current @480 Vac	180.5	200.5	A
Max. output current @380/400 Vac	250.7	278.4	A
Max. output current @480 Vac	198.6	220.5	A
Nominal output voltage	380 / 400 / 480, 3W+(N)+PE		Vac
Nominal grid frequency	50 / 60		Hz
Power factor	0.8 leading ~ 0.8 lagging		
Total current harmonic distortion	THDi < 1% [2]		
Efficiency			
Max. efficiency @380/400 Vac	98.5%		
European efficiency @380/400 Vac	98.2%		
Max. efficiency @480 Vac	98.7%		
European efficiency @480 Vac	98.4%		
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)	1019 / 668 / 340		mm
Weight	100		kg
Nighttime power consumption	< 4.0		
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. 400 mm²)		
Cooling	Smart air cooling		
Ingress protection rating	IP66		
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)		

1. The inverter will initiate protection if the input voltage exceeds the MPPT operating voltage range.
2. This is tested under rated operating conditions.
3. The information in this document reflects the current state of technology and is subject to change without notice. For the latest updates, please refer to the Sigenergy website.

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