



Sigen PV Inverter

50.0 / 60.0 / 80.0 / 100.0 / 110.0 kW

- Lightweight design, saves transportation and installation costs
- Multiple units in parallel connection, no data logger needed
- Industry-leading AFCI detection, superior safety and reliability
- Instant PV reverse connection alert, ensuring correct installation
- IP66 protection rating, worry-free outdoor usage with easy O&M

Sigen PV Inverter 50.0 / 60.0 / 80.0 / 100.0 / 110.0 kW

Preliminary

Sigen PV	50M1	60M1	80M1	100M1	110M1	Units
DC Input						
Max. PV input power	90,000	108,000	144,000	180,000	198,000	Wp
Max. DC input voltage			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	5	6	8	8	
Number of PV strings per MPPT			2			
Max. input current per MPPT			32			A
Max. short-circuit current per MPPT			50			A
AC Output						
Nominal output active power	50,000	60,000	80,000	100,000	110,000	W
Max. output apparent power	55,000	66,000	88,000	110,000	121,000	VA
Max. output active power (cosΦ=1)	55,000	66,000	88,000	110,000	121,000	W
Nominal output current	76.0	91.2	121.5	151.9	167.1	A
Max. output current	83.6	100.3	133.7	167.1	183.8	A
Nominal output voltage		380 / 400 (3 / N / PE, N-wire is optional)				V
Output voltage range		320 ~ 480				V
Nominal grid frequency		50 / 60				Hz
Grid frequency range		45 ~ 55 / 55 ~ 65				Hz
Power factor		0.8 leading ~ 0.8 lagging				
Total current harmonic distortion		THDi < 3%				
Efficiency						
Max. efficiency			98.6%			
European efficiency	98.3%	98.3%	98.3%	98.4%	98.4%	
Protection						
Safety protection feature	Arc fault circuit interrupter, DC reverse polarity protection, Residual current monitoring, Type II DC/AC surge protection, Anti-islanding protection, Insulation monitoring, AC overcurrent/overvoltage/short-circuit protection.					
General Data						
Dimensions (W / H / D)			918 / 640 / 340			mm
Weight	68	68	75	75	75	kg
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
DC connection type		MC4 (Max. 6 mm²)				
AC connection type		OT / DT terminal (Max. 240 mm²)				
Cooling		Smart air cooling				
Protection rating		IP66				
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)					

Disclaimer: The information in this file is provided on an "as is" basis. To the fullest extent permitted by law, Sigenergy 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.