



Sigen PV Inverter

50.0 / 60.0 / 80.0 / 100.0 / 110.0 / 125.0 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	50M1	60M1	80M1	100M1	110M1	125M1	Units
DC Input							
Max. PV input power	100,000	120,000	160,000	200,000	220,000	220,000	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	8	
Number of PV strings per MPPT			2				
Max. input current per MPPT			40				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	125,000 ¹	W
Max. output apparent power	55,000	66,000	88,000	110,000	121,000	125,000 ¹	VA
Max. output active power (cosΦ=1)	55,000	66,000	88,000	110,000	121,000	125,000 ¹	W
Nominal output current	76.0	91.2	121.5	151.9	167.1	181.2	A
Max. output current	83.6	100.3	133.7	167.1	183.8	181.2	A
Nominal output voltage			380 / 400 3W+(N)+PE			400 3W+(N)+PE	Vac
Output voltage range			320 ~ 480				Vac
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 < 2%				
Efficiency							
Max. efficiency			98.6%				
European efficiency	98.3%	98.3%	98.3%	98.4%	98.4%	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)			918 / 640 / 340				mm
Weight	68	68	75	75	75	75	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
DC connection type			MC4 (Max. 6 mm²)				
AC connection type			OT / DT terminal (Max. 240 mm²)				
Cooling			Smart air cooling				
System ingress protection rating			IP66				
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)						

1. Under specific ambient temperature and grid voltage 400Vac.