



# 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

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Preliminary

Sigen PV	50M1	60M1	80M1	100M1	110M1	Units
<b>DC Input</b>						
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
<b>AC Output</b>						
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%			
<b>Efficiency</b>						
Max. efficiency			98.6%			
European efficiency	98.3%	98.3%	98.3%	98.4%	98.4%	
<b>Protection</b>						
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.					
<b>General Data</b>						
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 mm <sup>2</sup> )			
AC connection type			OT / DT terminal (Max. 240 mm <sup>2</sup> )			
Cooling			Smart air cooling			
Protection rating			IP66			
Communication			WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)			