

Sigen PV Inverter 50.0 / 60.0 / 80.0 / 100.0 / 110.0 / 125.0 kW

Preliminary

Sigen PV	50M1	60M1	80M1	100M1	110M1	125M1	Units
DC Input							
Max. PV input power	90,000	108,000	144,000	180,000	198,000	217,600	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			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	125,000	W
Max. output apparent power	55,000	66,000	88,000	110,000	121,000	125,000	VA
Max. output active power (cosΦ=1)	55,000	66,000	88,000	110,000	121,000	125,000	W
Nominal output current	72.2	86.6	115.5	144.3	158.8	180.4	A
Max. output current	79.4	95.3	127.0	158.8	174.7	180.4	A
Nominal output voltage			400 (3 / N / PE)				V
Output voltage range			320 ~ 460				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 < 2%				
Efficiency							
Max. efficiency			98.6%				
European efficiency			98.4%				
Protection							
Safety protection feature	DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Type II DC/AC surge protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection.						
General Data							
Dimensions (W / H / D)			890 / 636 / 340				mm
Weight	68	68	75	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				
System ingress protection rating			IP66				
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)						