

Three Phase String Inverter

SUN- 18 / 20 / 25 K-G05



2 MPPT trackers, Max. efficiency up to 98.6%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Technical Data

Model	SUN-18K-G05		SUN-20K-G05	SUN-25K-G05
Input Side				
Max. DC Input Power (kW)	23.4	26	32.5	
Max. DC Input Voltage (V)	1100			
Start-up DC Input Voltage (V)	250			
MPPT Operating Range (V)	200-1000			
Max. DC Input Current (A)	26+26			
Max. Short Circuit Current (A)	39+39			
Number of MPPT	2			
Strings per MPPT	2+2			
Output Side				
Rated Output Power (kW)	18	20	25	
Max. Active Power (kW)	19.8	22	27.5	
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)			
Rated Grid Frequency (Hz)	50 / 60 (Optional)			
Operating Phase	Three phase			
Rated AC Grid Output Current (A)	27.3/26.1	30.3/29	37.9/36.2	
Max. AC Output Current (A)	30/28.7	33.3/31.9	41.7/39.8	
Output Power Factor	0.8 leading to 0.8 lagging			
Total Harmonics Current Distortion (THDi)	<3%			
DC Injection Current (mA)	<0.5%			
Grid Frequency Range	45-55 or 55-65 (Optional)			
Efficiency				
Max. Efficiency	98.6%			
Euro Efficiency	97.83%			
MPPT Efficiency	>99%			
Protection				
DC Reverse-Polarity Protection	Yes			
AC Short Circuit Protection	Yes			
AC Output Overcurrent Protection	Yes			
Output Overvoltage Protection	Yes			
Insulation Resistance Protection	Yes			
Ground Fault Monitoring	Yes			
Anti-islanding Protection	Yes			
Temperature Protection	Yes			
Integrated DC Switch	Yes			
Remote software upload	Yes			
Remote change of operating parameters	Yes			
Surge protection	DC Type II / AC Type II			
General Data				
Size (mm)	362×527×220 (Excluding Connectors and Brackets)			
Weight (kg)	20			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25 to +65℃, >45℃ derating			
Ingress Protection	IP65			
Noise Emission (Typical)	≤40 dB			
Cooling Concept	Smart cooling			
Max. Operating Altitude Without Derating	4000m			
Designed Lifetime	8 Years			
Grid Connection Standard	IEC 61727/IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, ÖVE-Richtlinie R25, G99, VDE-AR-N 4105			
Operating Surroundings Humidity	0-100%			
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			
Features				
Display	LCD1602			
Interface	RS485/RS232/Wifi/LAN			