






Three Phase String Inverter

SUN- 18 / 20 / 25 K-G05



-  2 MPP 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°C, >45°C 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, OVE-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		