

Three Phase String Inverter

SUN- 15 K-G03



2 MPPT trackers, Max. efficiency up to 98.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Technical Data

Model		SUN-15K-G03
Input Side		
Max. DC Input Power (kW)	19.5	
Max. DC Input Voltage (V)	1100	
Start-up DC Input Voltage (V)	250	
MPPT Operating Range (V)	250-1000	
Max. DC Input Current (A)	20+26	
Max. Short Circuit Current (A)	30+39	
Number of MPPT	2	
Strings per MPPT	1+2	
Output Side		
Rated Output Power (kW)	15	
Max. Active Power (kW)	16.5	
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)	22.7/21.7	
Max. AC Output Current (A)	25/23.9	
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		
Euro Efficiency	98.5%	
Euro Efficiency	97.5%	
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)	283x463x178 (Excluding Connectors and Brackets)	
Weight (kg)	15	
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	
Warranty	8 years	
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G98, G99, VDE 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	