

Three Phase String Inverter

SUN- 15 K-G03



2 MPP trackers, Max. efficiency up to 98.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



MICROMAK RENEWABLE ENERGY

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℃, >45℃ 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		

