

# Three Phase String Inverter

SUN- 4 / 5 / 6 / 7 / 8 / 10 / 12 K-G03 Plus



2 MPP trackers, Max. efficiency up to 98.6%



Max. DC input current of 16A/string, adapt to 600W solar panel



Zero export application, VSG application



Wide output voltage range



String intelligent monitoring (optional)



Anti-PID function (Optional)

Model	SUN-4K -G03-P	SUN-5K -G03-P	SUN-6K -G03-P	SUN-7K -G03-P	SUN-8K -G03-P	SUN-10K -G03-P	SUN-12K -G03-P
<b>Input Side</b>							
Max. DC Input Power (kW)	5.2	6.5	7.8	9.1	10.4	13	15.6
Max. DC Input Voltage (V)	1000						
Start-up DC Input Voltage (V)	140						
MPPT Operating Range (V)	120~850						
Max. DC Input Current (A)	16+16						
Max. Short Circuit Current (A)	24+24						
Number of MPPT / Strings per MPPT	2/1						
<b>Output Side</b>							
Rated Output Power (kW)	4	5	6	7	8	10	12
Max. Active Power (kW)	4.4	5.5	6.6	7.7	8.8	11	13.2
Rated AC Grid Voltage (V)	220 / 380, 230 / 400						
AC Grid Voltage Range (V)	277Vac~460Vac (this may vary with grid standards)						
Rated Grid Frequency (Hz)	50 / 60 (Optional)						
Operating Phase	Three phase						
Rated AC Grid Output Current (A)	5.8	7.2	8.7	10.1	11.6	14.5	17.4
Max. AC Output Current (A)	6.4	8	9.6	11.2	12.8	15.9	19.1
Output Power Factor	0.8 leading to 0.8 lagging						
Grid Current THD	<3%						
DC Injection Current (mA)	<0.5%						
Grid Frequency Range	47~52 or 57~62 (Optional)						
<b>Efficiency</b>							
Max. Efficiency	98.3%						
Euro Efficiency	97.5%						
MPPT Efficiency	>99%						
<b>Protection</b>							
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						
<b>General Data</b>							
Size (mm)	330Wx457Hx185D						330Wx457Hx205D
Weight (kg)	10						11
Topology	Transformerless						
Internal Consumption	<1W (Night)						
Running Temperature	-25~65°C						
Ingress Protection	IP65						
Noise Emission (Typical)	<25 dB						
Cooling Concept	Natural cooling						
Max. Operating Altitude Without Derating	2000m						
Designed Lifetime	>20 years						
Grid Connection Standard	EN50549-1, IEC61727, IEC62116, IEC60068, IEC61683, VDE 0126-1-1, RD1699, UNE 206006 IN, UNE 206007-1 IN, UNE 217001 IN						
Operating Surroundings Humidity	0-100%						
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12						
<b>Features</b>							
DC Connection	MC-4 mateable						
AC Connection	IP65 rated plug						
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						