

# Three Phase String Inverter

SUN- 70 / 80 / 90 / 100 / 110 K-G03



Max. 6 MPP trackers, Max. efficiency up to 98.8%



Zero export application, VSG application



String intelligent monitoring



Wide output voltage range



Anti-PID function



Type II DC/AC SPD

## Technical Data

Model	SUN-70K-G03	SUN-80K-G03	SUN-90K-G03	SUN-100K-G03	SUN-110K-G03
<b>Input Side</b>					
Max. DC Input Power (kW)	91	104	135	150	150
Max. DC Input Voltage (V)	1100				
Start-up DC Input Voltage (V)	250				
MPPT Operating Range (V)	200-1000				
Max. DC Input Current (A)	40+40+40+40		40+40+40+40+40+40		
Max. Short Circuit Current (A)	60+60+60+60		60+60+60+60+60+60		
Number of MPPT	4		6		
Strings per MPPT	4+4+4+4		4+4+4+4+4+4		
<b>Output Side</b>					
Rated Output Power (kW)	70	80	90	100	110
Max. Active Power (kW)	77	88	99	110	121
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)	106.1/101.5	121.2/115.9	136.4/130.4	151.5/144.9	166.7/159.4
Max. AC Output Current (A)	116.7/111.6	133.3/127.5	150/143.5	166.7/159.4	183.3/175.4
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)				
<b>Efficiency</b>					
Max. Efficiency	98.7%				
Euro Efficiency	98.3%				
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)	826W×516H×312.7D (Excluding connectors and brackets)				
Weight (kg)	81				
Topology	Transformerless				
Internal Consumption	<1W (Night)				
Running Temperature	-25~65℉, >45℉ derating				
Ingress Protection	IP65				
Noise Emission (Typical)	≤55 dB				
Cooling Concept	Smart cooling				
Max. Operating Altitude Without Derating	4000m				
Warranty	8 years				
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, CEI 0-16, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105, VDE-AR-N 4110				
Operating Surroundings Humidity	0-100%				
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
<b>Features</b>					
Display	LCD 240 × 160				
Interface	RS485/RS232/Wifi/LAN				