






# Three Phase String Inverter

SUN-18/20/25K-G04



-  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-G04	SUN-20K-G04	SUN-25K-G04
<b>Input Side</b>			
Max. DC Input Power (kW)	23.4	26	32.5
Max. DC Input Voltage (V)	1000		
Start-up DC Input Voltage (V)	250		
MPPT Operating Range (V)	200-850		
Max. DC Input Current (A)	32+32		
Max. Short Circuit Current (A)	48+48		
No. of MPP Trackers	2		
No. of Strings per MPP Tracker	3+3		
<b>Output Side</b>			
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
Power Factor Adjustment Range	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	98.6%		
Euro Efficiency	97.8%		
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>			
Cabinet Size (WxHxD mm)	362x577x215 (Excluding Connectors and Brackets)		
Weight (kg)	23		
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		
Permissible Altitude (m)	2000		
Warranty	5 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		
<b>Features</b>			
Display	LCD1602		
Interface	RS485/RS232/Wifi/LAN		