







# Single Phase String Inverter

SUN-1/1.5/2/2.2/2.5/2.7/3/3.3/3.6/4K-G04P1-EU-AM1



-  1 MPP tracker, Max. efficiency up to 97.5%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)
-  Low start-up voltage of 80V

  
**NEO**

## Technical Data

Model	SUN-1K-G04 SUN-1.5K-G04 SUN-2K-G04 SUN-2.2K-G04 SUN-2.5K-G04 SUN-2.7K-G04 SUN-3K-G04 SUN-3.3K-G04 SUN-3.6K-G04 SUN-4K-G04									
	P1-EU-AM1 P1-EU-AM1 P1-EU-AM1 P1-EU-AM1 P1-EU-AM1 P1-EU-AM1 P1-EU-AM1 P1-EU-AM1 P1-EU-AM1 P1-EU-AM1									
<b>PV String Input Data</b>										
Max. PV Input Power (kW)	1.3	2	2.6	2.9	3.3	3.5	3.9	4.3	4.7	5.2
Max. PV Input Voltage (V)	550									
Start-up Voltage (V)	80									
MPPT Voltage Range (V)	70-500									
Rated PV Input Voltage (V)	360									420
Max. Operating PV Input Current (A)	20									
Max. Input Short Circuit Current (A)	30									
No. of MPP Trackers/ No. of Strings per MPP Tracker	1/1									
<b>AC Output Side</b>										
Rated AC Output Active Power (kW)	1	1.5	2	2.2	2.5	2.7	3	3.3	3.6	4
Max. AC Output Apparent Power (kVA)	1.1	1.65	2.2	2.42	2.75	2.97	3.3	3.63	3.96	4.4
Rated AC Output Current (A)	4.6/4.4	6.8/6.5	9.1/8.7	10/9.6	11.4/10.9	12.3/11.8	13.7/13.1	15/14.4	16.4/15.7	18.2/17.4
Max. AC Output Current (A)	5/4.8	7.5/7.2	10/9.6	11/10.6	12.5/12	13.5/13	15/14.4	16.5/15.8	18/17.3	20/19.2
Rated Output Voltage/Range (V)	220/230 0.85Un-1.1Un									
Grid Connection Form	L/N/PE									
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65									
Power Factor Adjustment Range	0.8 leading to 0.8 lagging									
Total Current Harmonic Distortion THDi	<3%									
DC Injection Current	<0.5%In									
<b>Efficiency</b>										
Max. Efficiency	97.3%					97.5%				
Euro Efficiency	96.3%					97.0%				
MPPT Efficiency	>99%									
<b>Equipment Protection</b>										
DC Polarity Reverse Connection Protection	Yes									
AC Output Overcurrent Protection	Yes									
AC Output Overvoltage Protection	Yes									
AC Output Short Circuit Protection	Yes									
Thermal Protection	Yes									
DC Terminal Insulation Impedance Monitoring	Yes									
DC Component Monitoring	Yes									
Ground Fault Current Monitoring	Yes									
Power Network Monitoring	Yes									
Island Protection Monitoring	Yes									
Earth Fault Detection	Yes									
Overvoltage Load Drop Protection	Yes									
Residual Current (RCD) Detection	Yes									
Surge Protection Level	TYPE II(DC), TYPE II(AC)									
<b>Interface</b>										
Communication Interface	RS485/RS232									
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)									
<b>General Data</b>										
Operating Temperature Range (°C)	-25 to +65°C, >45°C									
Permissible Ambient Humidity	Derating									
Permissible Altitude (m)	0-100%									
Noise (dB)	2000m									
Ingress Protection(IP) Rating	IP 65									
Inverter Topology	Non-Isolated									
Over Voltage Category	OVC II(DC), OVC III(AC)									
Cabinet Size (WxHxD mm)	280×310×184 (Excluding Connectors and Brackets)									
Weight (kg)	6.35									
Warranty	5 Years									
Type of Cooling	Natural Cooling									
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G98, G99, VDE-AR-N 4105									
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2									