

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

Deye

Stock Code: 605117.SH

Model	SUN-1K-G04 P1-EU-AM1	SUN-1.5K-G04 P1-EU-AM1	SUN-2K-G04 P1-EU-AM1	SUN-2.2K-G04 P1-EU-AM1	SUN-2.5K-G04 P1-EU-AM1	SUN-2.7K-G04 P1-EU-AM1	SUN-3K-G04 P1-EU-AM1	SUN-3.3K-G04 P1-EU-AM1	SUN-3.6K-G04 P1-EU-AM1	SUN-4K-G04 P1-EU-AM1	
PV String Input Data											
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										
AC Output Side											
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										
Efficiency											
Max. Efficiency							97.5%				
Euro Efficiency							97.0%				
MPPT Efficiency	>99%										
Equipment Protection											
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)										
Interface											
Communication Interface	RS485/RS232 /WiFi/LAN										
General Data											
Operating Temperature Range (°C)	-25 to +65°C, >45°C Derating										
Permissible Ambient Humidity	0-100%										
Permissible Altitude (m)	2000m										
Noise (dB)	≤35										
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										