

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 MPPT 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
Input Side										
Max. DC Input Power (kW)	1.3	2	2.6	2.9	3.3	3.5	3.9	4.3	4.7	5.2
Max. DC Input Voltage (V)	550									
Start-up DC Input Voltage (V)	80									
MPPT Operating Range (V)	70~500									
Max. DC Input Current (A)	13									
Max. Short Circuit Current (A)	19.5									
No.of MPP Trackers	1									
No.of Strings per MPP Tracker	1									
Output Side										
Rated Output Power (kW)	1	1.5	2	2.2	2.5	2.7	3	3.3	3.6	4
Max. Active Power (kW)	1.1	1.65	2.2	2.42	2.75	2.97	3.3	3.63	3.96	4.4
Rated Output Voltage/Range (V)	L/N/PE 220/230V (Optional) 0.85Un-1.1Un (this may vary with grid standards)									
Rated Grid Frequency (Hz)	50 / 60 (Optional)									
Operating Phase	Single Phase									
Rated AC Grid 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
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)									
Efficiency										
Max. Efficiency	97.3%	97.3%	97.3%	97.3%	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%
Euro Efficiency	97.1%	97.1%	97.1%	97.1%	97.1%	97.1%	97.3%	97.3%	97.3%	97.3%
MPPT Efficiency	>99%									
Protection										
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									
General Data										
Cabinet Size (WxHxD mm)	280×310×184 (Excluding Connectors and Brackets)									
Weight (kg)	4.8									
Topology	Transformerless									
Internal Consumption	<1W (Night)									
Running Temperature	-25~65°C, >45°C Derating									
Ingress Protection	IP65									
Noise Emission (Typical)	≤35 dB									
Cooling Concept	Free 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, G98, 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									
Features										
Display	LCD1602									
Interface	RS485/RS232/Wifi/LAN									