Single Phase String Inverter

SUN-1/1.5/2/2.2/2.5/2.7/3/3.3/3.6/4K-G05P1-EU-CM1





- 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 50V

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Stock Code: 605117.SH

Technical Data

Model	SUN-1K-G05 P1-EU-CM1	SUN-1.5K-G05 P1-EU-CM1	SUN-2K-G05 P1-EU-CM1	SUN-2.2K-G05 P1-EU-CM1	SUN-2.5K-G05 P1-EU-CM1	SUN-2.7K-G05 P1-EU-CM1	SUN-3K-G05 P1-EU-CM1	SUN-3.3K-G05 P1-EU-CM1	SUN-3.6K-G05 P1-EU-CM1	SUN-4K-G05 P1-EU-CM1
PV String Input Data										
Max. PV Input Power (kW)	1.5	2.3	3	3.3	3.8	4.1	4.5	5	5.4	6
Max. PV Input Voltage (V)	550									
Start-up Voltage (V)	50									
MPPT Voltage Range (V)	40-500									
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 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	6.9/6.6	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	97.3%						97.5%			
Euro Efficiency	96.9%						97.0%			
MPPT Efficiency	>99%									
Equipment Protection										
DC Reverse Polarity Protection	Yes									
AC Output Overcurrent Protection	Yes									
AC Output Overvoltage Protection	Yes									
AC Output Short Circuit Protection	Yes									
Thermal Protection	Yes									
Insulation Impedance Detection	Yes									
DC Component Monitoring	Yes									
Arc Fault Circuit Interrupter (AFCI)	Optional									
Anti-islanding Protection	Yes									
Residual Current Detection	Yes									
Surge Protection Level	TYPE II(DC), TYPE II(AC)									
DC Switch	Yes									
Interface										
LCD/LED display	LCD+LED									
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)	280.2×254.5×173 (Excluding Connectors and Brackets)									
Weight (kg)	5.7									
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 62109-1,IEC/EN 62109-2 , IEC/EN 61000-6-1,IEC/EN 61000-6-2,IEC/EN 61000-6-3,IEC/EN 61000-6-4									

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Ningbo Deye Inverter Technology Co., Ltd.

Address: No. 26 South YongJiang Road, Daqi, Beilun, NingBo, Zhejiang, China. | Tel: +86 (0)574 86228841 | E-mail: market@deye.com.cn