

Three Phase String Inverter

SUN-4/5/6/7/8/10/12/15K-G05



2 MPP trackers, Max. efficiency up to 98.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

Technical Data

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Model	SUN-4K-G05	SUN-5K-G05	SUN-6K-G05	SUN-7K-G05	SUN-8K-G05	SUN-10K-G05	SUN-12K-G05	SUN-15K-G05	
Input Side									
Max. DC Input Power (kW)	5.2	6.5	7.8	9.1	10.4	13	15.6	19.5	
Max. DC Input Voltage (V)	1000								
Start-up DC Input Voltage (V)	140					250			
MPPT Operating Range (V)	120-1000					250-850			
Max. DC Input Current (A)	13+13					13+26			13+26
Max. Short Circuit Current (A)	19.5+19.5					19.5+39			19.5+39
No. of MPP Trackers	2								
No. of Strings per MPP Tracker	1+1							1+2	
Output Side									
Rated Output Power (kW)	4	5	6	7	8	10	12	15	
Max. Active Power (kW)	4.4	5.5	6.6	7.7	8.8	11	13.2	16.5	
Nominal Output Voltage / Range (V)	3L/N/PE 220/380V, 230/400V								
Rated Grid Frequency (Hz)	50 / 60 (Optional)								
Operating Phase	Three Phase								
Rated AC Grid Output Current (A)	6.1/5.8	7.6/7.2	9.1/8.7	10.6/10.1	12.1/11.6	15.2/14.5	18.2/17.4	22.8/21.8	
Max. AC Output Current (A)	6.7/6.4	8.3/8	10/9.6	11.7/11.1	13.3/12.8	16.7/15.9	20/19.1	25/24	
Output Power Factor	0.8 leading to 0.8 lagging								
Grid Current THD	<3%								
DC Injection Current (mA)	<0.5%								
Grid Frequency Range	47-52 or 57-62 (Optional)								
Efficiency									
Max. Efficiency	98.3%								
Euro Efficiency	97.5%								
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)	330×457×185 (Excluding Connectors and Brackets)						330×457×205		
Weight (kg)	10						11		
Topology	Transformerless								
Internal Consumption	<1W (Night)								
Running Temperature	-25-60°C, >45°C Derating								
Ingress Protection	IP65								
Noise Emission (Typical)	≤30 dB								
Cooling Concept	Free Cooling								
Max. Operating Altitude Without Derating	2000m								
Warranty	5 Years								
Grid Connection Standard	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150								
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									
DC Connection	MC-4 Mateable								
AC Connection	IP65 Rated Plug								
Display	LCD1602								
Interface	RS485/RS232/Wifi/LAN								



Ningbo Deye Inverter Technology Co., Ltd.

Add: No. 26 South YongJiang Road, Daqi, Beilun, NingBo, Zhejiang, China. | Tel: 0086-0574-86120560 | E-mail: market@deye.com.cn