

# Three Phase String Inverter

SUN-4/5/6/7/8/12K-G06

SUN-10K-G05



2 MPPT trackers, Max. efficiency up to 98.3%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

**Deye**

Stock Code: 605117.SH

Model	SUN-4K-G06	SUN-5K-G06	SUN-6K-G06	SUN-7K-G06	SUN-8K-G06	SUN-10K-G05	SUN-12K-G06
<b>PV String Input Data</b>							
Max. PV Input Power (kW)	5.2	6.5	7.8	9.1	10.4	13	15.6
Max. PV Input Voltage (V)	1100						
Start-up Voltage (V)	140						
MPPT Voltage Range (V)	120-1000						
Rated PV Input Voltage (V)	600						
Max. Operating PV Input Current (A)	13+13						
Max. Input Short Circuit Current (A)	19.5+19.5						
No. of MPP Trackers/ No. of Strings per MPP Tracker	2/1+1						
<b>AC Output Side</b>							
Rated AC Output Active Power (kW)	4	5	6	7	8	10	12
Max. AC Output Apparent Power (kVA)	4.4	5.5	6.6	7.7	8.8	11	13.2
Rated AC Output Current (A)	6.1/5.8	7.6/7.3	9.1/8.7	10.7/10.2	12.2/11.6	15.2/14.5	18.2/17.4
Max. AC Output Current (A)	6.7/6.4	8.4/8	10/9.6	11.7/11.2	13.4/12.8	16.7/16	20/19.2
Rated Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un						
Grid Connection Form	3L/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	98.1%	98.2%			98.3%		
Euro Efficiency	97.5%	97.6%			97.8%		
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 /WiFi/LAN						
<b>General Data</b>							
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude (m)	4000m						
Noise (dB)	<45						
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated						
Over Voltage Category	OVC II(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	283×463×178 (Excluding Connectors and Brackets)						
Weight (kg)	11						
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, OVE-Richtlinie R25, G99, VDE-AR-N 4105						
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						