

# Three Phase String Inverter(LV)

SUN-6/8K-G05-LV



127V/220V, 133V/230V and  
50/60Hz, Three phase system



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

Model	SUN-6K-G05-LV	SUN-8K-G05-LV
<b>PV String Input Data</b>		
Max. PV Input Power (kW)	7.8	10.4
Max. PV Input Voltage (V)	800	
Start-up Voltage (V)	250	
MPPT Voltage Range (V)	200-700	
Rated PV Input Voltage (V)	350	
Max. Operating PV Input Current (A)	13+13	13+26
Max. Input Short Circuit Current (A)	19.5+19.5	19.5+39
No. of MPP Trackers/ No. of Strings per MPP Tracker	2/1+1	2/1+2
<b>AC Output Side</b>		
Rated AC Output Active Power (kW)	6	8
Max. AC Output Apparent Power (kVA)	6	8
Rated AC Output Current (A)	15.8/15.1	21/20.1
Max. AC Output Current (A)	15.8/15.1	21/20.1
Rated Output Voltage/Range (V)	127V/220V, 133V/230V 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	98.3%	
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 +65°C, >45°C Derating	
Permissible Ambient Humidity	0-100%	
Permissible Altitude (m)	4000m	
Noise (dB)	≤30	≤40
Ingress Protection(IP) Rating	IP 65	
Inverter Topology	Non-Isolated	
Over Voltage Category	OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)	332×457×203 (Excluding Connectors and Brackets)	332×472×203 (Excluding Connectors and Brackets)
Weight (kg)	11	15
Warranty	5 Years	
Type of Cooling	Natural Cooling	Intelligent Air Cooling
Grid Regulation	NBR 16149, NBR 16150, EN 50549, RD 140	
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	