

Three Phase String Inverter (LV)

SUN- 6 / 8 K-G03-LV



LV 127/220Vac and 60Hz, Three phase system

▲ 2 MPP tracker, Max. efficiency up to 98.3%

0 Zero export application, VSG application

▲ String intelligent monitoring (optional)

~ Wide output voltage range

■ Ani-PID function (Optional)

Deye

Clean Power For You

Model	SUN-6K-G03-LV	SUN-8K-G03-LV
Input Side		
Max. DC Input Power (kW)	7.8	10.4
Max. DC Input Voltage (V)	800	
Start-up DC Input Voltage (V)	250	
MPPT Operating Range (V)	200~700	
Max. DC Input Current (A)	13+13	13+26
Max. Short Circuit Current (A)	19.5+19.5	19.5+39
Number of MPPT / Strings per MPPT	2 / 1	2 / 1+2
Output Side		
Rated Output Power (kW)	6	8
Max. Active Power (kW)	6.6	8.8
Rated AC Grid Voltage (V)	127 / 220	
AC Grid Voltage Range (V)	176Vac~242Vac (this may vary with grid standards)	
Rated Grid Frequency (Hz)	60 / 50 (Optional)	
Operating Phase	Three phase	
Rated AC Grid Output Current (A)	15.7	21
Max. AC Output Current (A)	17.3	23.1
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%	98.5%
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		
Size (mm)	330W×457.5H×185D	330W×472H×202D
Weight (kg)	10	15
Topology	Transformerless	
Internal Consumption	<1W (Night)	
Running Temperature	-25~65°C	
Ingress Protection	IP65	
Noise Emission (Typical)	<25 dB	<45 dB
Cooling Concept	Natural cooling	Smart cooling
Max. Operating Altitude Without Derating	2000m	
Designed Lifetime	>20 years	
Grid Connection Standard	ABNT NBR 16149, ABNT NBR 16150, ABNT NBR IEC 62116	
Operating Surroundings Humidity	0-100%	
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-2, IEC61000-6-4, IEC61000-3-11, IEC61000-3-12	
Features		
DC Connection	MC-4 mateable	
AC Connection	IP65 rated plug	
Display	LCD1602	
Interface	RS485/RS232/Wifi/LAN	