

Three Phase String Inverter

SUN- 4 / 5 / 6 / 7 / 8 / 10 K-G03



2 MPP tracker, Max. efficiency up to 98.3%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Deye

Clean Power For You

Model	SUN-4K-G03	SUN-5K-G03	SUN-6K-G03	SUN-7K-G03	SUN-8K-G03	SUN-10K-G03
Input Side						
Max. DC Input Power (kW)	5.2	6.5	7.8	9.1	10.4	13
Max. DC Input Voltage (V)	1000					
Start-up DC Input Voltage (V)	140					
MPPT Operating Range (V)	120~850					
Max. DC Input Current (A)	12.5+12.5					
Number of MPPT / Strings per MPPT	2/1					
Output Side						
Rated Output Power (kW)	4	5	6	7	8	10
Max. Active Power (kW)	4.4	5.5	6.6	7.7	8.8	11
Rated AC Grid Voltage (V)	220 / 380, 230 / 400					
AC Grid Voltage Range (V)	277Vac~460Vac (this may vary with grid standards)					
Rated Grid Frequency (Hz)	50 / 60 (Optional)					
Operating Phase	Three phase					
Rated AC Grid Output Current (A)	5.8	7.2	8.7	10.1	11.6	14.5
Max. AC Output Current (A)	6.4	8	9.6	11.1	12.8	15.9
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						
Size (mm)	330Wx430Hx177D					
Weight (kg)	15					
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25~65°C					
Ingress Protection	IP65					
Noise Emission (Typical)	<25 dB					
Cooling Concept	Natural cooling					
Max. Operating Altitude Without Derating	2000m					
Designed Lifetime	>20 years					
Grid Connection Standard	EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2					
Operating Surroundings Humidity	0-100%					
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-3					
Features						
DC Connection	MC-4 mateable					
AC Connection	IP65 rated plug					
Display	LCD1602					
Interface	RS485/RS232/Wifi/LAN					