

# Three Phase String Inverter

SUN- 70 / 75 / 80 / 100 K-G03



Max. 6 MPPT trackers, Max. efficiency up to 98.7%



Zero export application, VSG application



String intelligent monitoring (optional)



DC/AC ratio upto 1.5



Type II DC/AC SPD



Anti-PID function (Optional)

**Deye**

*Clean Power For You*

Model	SUN-70K-G03	SUN-75K-G03	SUN-80K-G03	SUN-100K-G03
<b>Input Side</b>				
Max. DC Input Power (kW)	105	112.5	120	150
Max. DC Input Voltage (V)	1000			
Start-up DC Input Voltage (V)	250			
MPPT Operating Range (V)	200~850			
Max. DC Input Current (A)	40+40+40+40	40+40+40+40	40+40+40+40	40+40+40+40+40+40
Number of MPPT / Strings per MPPT	4 / 4	4 / 4	4 / 4	6 / 4
<b>Output Side</b>				
Rated Output Power (kW)	70	75	80	100
Max. Active Power (kW)	77	82.5	88	110
Rated AC Grid Voltage (V)	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)	101.5	108.7	115.9	144.9
Max. AC Output Current (A)	111.6	119.6	127.5	159.4
Output Power Factor	>0.99			
Grid Current THD	<2%			
DC Injection Current (mA)	<0.5%			
Grid Frequency Range	47~52 or 57~62 (Optionl)			
<b>Efficiency</b>				
Max. Efficiency	98.7%			
Euro Efficiency	98.3%			
MPPT Efficiency	>99%			
<b>Protection</b>				
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			
<b>General Data</b>				
Size (mm)	838W×577H×323D			
Weight (kg)	73.7			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25~65°C			
Ingress Protection	IP65			
Noise Emission (Typical)	<55 dB			
Cooling Concept	Smart 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, AS3100, EN61000-6-1			
<b>Features</b>				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD 240 × 160			
Interface	RS485/RS232/Wifi/LAN			