

# Three Phase String Inverter

SUN- 12 / 15 K-G03



2 MPP tracker, Max. efficiency up to 98.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

**Deye**

*Clean Power For You*

Model	SUN-12K-G03	SUN-15K-G03
<b>Input Side</b>		
Max. DC Input Power (kW)	15.6	19.5
Max. DC Input Voltage (V)		1000
Start-up DC Input Voltage (V)		250
MPPT Operating Range (V)		200~800
Max. DC Input Current (A)		11+22
Number of MPPT / Strings per MPPT		2 / 1+2
<b>Output Side</b>		
Rated Output Power (kW)	12	15
Max. Active Power (kW)	13.2	16.5
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)	17.4	21.8
Max. AC Output Current (A)	19.1	23.9
Output Power Factor		0.8 leading to 0.8 lagging
Grid Current THD		<2%
DC Injection Current (mA)		<0.5%
Grid Frequency Range		47~52 or 57~62 (Optional)
<b>Efficiency</b>		
Max. Efficiency		98.5%
Euro Efficiency		97.5%
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)		330Wx430Hx193.5D
Weight (kg)		17
Topology		Transformerless
Internal Consumption		<1W (Night)
Running Temperature		-25~65°C
Ingress Protection		IP65
Noise Emission (Typical)		<45 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, EN61000-6-1, EN61000-6-3
<b>Features</b>		
DC Connection		MC-4 mateable
AC Connection		IP65 rated plug
Display		LCD1602
Interface		RS485/RS232/Wifi/LAN