

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
Input Side		
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)		200~850
Max. DC Input Current (A)		11+22
Number of MPPT / Strings per MPPT		2 / 1+2
Output Side		
Rated Output Power (kW)	12	15
Max. Active Power (kW)	13.2	16.5
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)	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	<3%	
DC Injection Current (mA)	<0.5%	
Grid Frequency Range	47~52 or 57~62 (Optional)	
Efficiency		
Max. Efficiency	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)	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	
Features		
DC Connection	MC-4 mateable	
AC Connection	IP65 rated plug	
Display	LCD1602	
Interface	RS485/RS232/Wifi/LAN	