

Single Phase String Inverter

SUN- 3.6 / 4 / 4.2 / 5 / 5.2 / 6 / 6.2 K-G03



2 MPP trackers, Max. efficiency up to 97.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



Low start-up voltage of 80V

Deye

Stock Code: 605117.SH

Model	SUN-3.6K-G03	SUN-4K-G03	SUN-4.2K-G03	SUN-5K-G03	SUN-5.2K-G03	SUN-6K-G03	SUN-6.2K-G03
Input Side							
Max. DC Input Power (kW)	4.7	5.2	5.5	6.5	6.8	7.8	8.1
Max. DC Input Voltage (V)	500						
Start-up DC Input Voltage (V)	80						
MPPT Operating Range (V)	70~450						
Max. DC Input Current (A)	13+13						
Max. Short Circuit Current (A)	19.5+19.5						
No.of MPP Trackers	2						
No.of Strings per MPP Tracker	1						
Output Side							
Rated Output Power (kW)	3.6	4	4.2	5	5.2	6	6.2
Max. Active Power (kW)	3.96	4.4	4.6	5.5	5.7	6.6	6.8
Nominal Output Voltage / Range (V)	L/N/PE 220V/230V (Optional)						
Rated Grid Frequency (Hz)	50 / 60 (Optional)						
Operating Phase	Single phase						
Rated AC Grid Output Current (A)	15.7	17.4	18.3	21.7	22.6	26.1	27
Max. AC Output Current (A)	17.2	19.1	20.1	23.9	24.9	28.7	29.7
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	97.3%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%
Euro Efficiency	97.1%	97.3%	97.3%	97.3%	97.3%	97.3%	97.3%
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	Optional						
Remote software upload	Yes						
Remote change of operating parameters	Yes						
Surge protection	DC Type II / AC Type II						
General Data							
Size (mm)	330W×323H×190D						
Weight (kg)	7.5						
Topology	Transformerless						
Internal Consumption	<1W (Night)						
Running Temperature	-25~65 , >45 derating						
Ingress Protection	IP65						
Noise Emission (Typical)	<35 dB						
Cooling Concept	Natural cooling						
Max. Operating Altitude Without Derating	2000m						
Warranty	8 years						
Grid Connection Standard	VDE4105 IEC61727/62116 VDE0126 AS4777.2 CEI 0 21, EN50549-1, G98 G99 C10-11, UNE217002, NBR16149/NBR16150						
Operating Surroundings Humidity	0-100%						
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
Features							
DC Connection	MC-4 mateable						
AC Connection	IP65 rated plug						
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						