

Single Phase String Inverter

SUN- 7 / 7.5 / 8 / 9 / 10 / 10.5 K-G



2 MPP trackers, Max. efficiency up to 97.7%



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-7K-G	SUN-7.5K-G	SUN-8K-G	SUN-9K-G	SUN-10K-G	SUN-10.5K-G
Input Side						
Max. DC Input Power (kW)	9.1	9.8	10.4	11.7	13	13.7
Max. DC Input Voltage (V)	550					
Start-up DC Input Voltage (V)	80					
MPPT Operating Range (V)	70~500					
Max. DC Input Current (A)	13+26			26+26		
Max. Short Circuit Current (A)	19.5+39			39+39		
No.of MPP Trackers	2					
No.of Strings per MPP Tracker	1+2			2		
Output Side						
Rated Output Power (kW)	7	7.5	8	9	10	10.5
Max. Active Power (kW)	7.7	8.25	8.8	9.9	11	11.55
Nominal Output Voltage / Range (V)	L/N/PE 220/230V (Optional)					
Rated Grid Frequency (Hz)	50 / 60 (Optional)					
Operating Phase	Single phase					
Rated AC Grid Output Current (A)	31.8/30.4	34.1/32.6	36.4/34.8	40.9/39.1	45.5/43.5	47.7/45.7
Max. AC Output Current (A)	35/33.5	37.5/35.9	40/38.3	45/43	50/47.8	52.5/50.2
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	97.7%					
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)	330W×410H×198.5D					
Weight (kg)	15.7					
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	5 years					
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11					
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					