

Single Phase String Inverter

SUN-7/7.5/8/9/10K-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
Input Side					
Max. DC Input Power (kW)	9.1	9.8	10.4	11.7	13
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+2	
Output Side					
Rated Output Power (kW)	7	7.5	8	9	10
Max. Active Power (kW)	7.7	8.25	8.8	9.9	11
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
Max. AC Output Current (A)	35/33.5	37.5/35.9	40/38.3	45/43	50/47.8
Output Power Factor	0.8 leading to 0.8 lagging				
Total Harmonics Current Distortion (THDi)	<3%				
DC Injection Current (mA)	<0.5%				
Grid Frequency Range	45~55 or 55~65 (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					
Cabinet Size (WxHxD mm)	330×410×198.5 (Excluding Connectors and Brackets)				
Weight (kg)	15.3				
Topology	Transformerless				
Internal Consumption	<1W (Night)				
Running Temperature	-25-65°C, >45°C Derating				
Ingress Protection	IP65				
Noise Emission (Typical)	≤35 dB				
Cooling Concept	Free Cooling				
Permissible Altitude (m)	2000				
Warranty	5 Years				
Grid Connection Standard	IEC 61727, IEC 62116, EN 50549, NRS 097, RD 140, UNE 217002, G99				
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					
Display	LCD1602				
Interface	RS485/RS232/Wifi/LAN				