

Single Phase String Inverter

SUN-8/10K-G-AU



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-8K-G-AU	SUN-10K-G-AU
Input Side		
Max. PV Input Power (kW)	12	15
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)	8	10
Max. Active Power (kW)	8	10
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)	34.8	43.5
Max. AC Output Current (A)	34.8	43.5
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 to +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	AS/NZS 4777.2AS/NZS 4777.2	
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	