

Single Phase String Inverter

SUN-9/10/10.5K-G02P1-AU-AM2



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-9K-G02P1-AU-AM2	SUN-10K-G02P1-AU-AM2	SUN-10.5K-G02P1-AU-AM2
PV String Input Data			
Max. PV Input Power (kW)	13.5	15	15.75
Max. PV Input Voltage (V)		550	
Start-up Voltage (V)		80	
MPPT Voltage Range (V)		70-500	
Rated PV Input Voltage (V)		360	
Max. Operating PV Input Current (A)		26+26	
Max. Input Short Circuit Current (A)		39+39	
No. of MPP Trackers/ No. of Strings MPP Tracker		2/2+2	
AC Output Side			
Rated AC Output Active Power (kW)	9	9.99	10.5
Max. AC Output Apparent Power (kVA)	9	9.99	10.5
Rated AC Output Current (A)	39.2	43.5	45.7
Max. AC Output Current (A)	39.2	43.5	45.7
Rated Output Voltage/Range (V)		230	0.85Un-1.1Un
Grid Connection Form		L/N/PE	
Rated Output Grid Frequency/Range(Hz)		50/45-55,	
Power Factor Adjustment Range		0.8 leading to 0.8 lagging	
Total Current Harmonic Distortion THDi		<3%	
DC Injection Current		<0.5%In	
Efficiency			
Max. Efficiency		97.7%	
Euro Efficiency		97.2%	
MPPT Efficiency		>99%	
Equipment Protection			
DC Polarity Reverse Connection Protection		Yes	
AC Output Overcurrent Protection		Yes	
AC Output Overvoltage Protection		Yes	
AC Output Short Circuit Protection		Yes	
Thermal Protection		Yes	
DC Terminal Insulation Impedance Monitoring		Yes	
DC Component Monitoring		Yes	
Ground Fault Current Monitoring		Yes	
Arc Fault Circuit Interrupter (AFCI)		Optional	
Power Network Monitoring		Yes	
Island Protection Monitoring		Yes	
Earth Fault Detection		Yes	
Overvoltage Load Drop Protection		Yes	
Residual Current (RCD) Detection		Yes	
Surge Protection Level		TYPE II(DC), TYPE II(AC)	
Interface			
Communication Interface		RS485	
Monitor Mode		GPRS/WIFI/Bluetooth/4G/LAN(optional)	
General Data			
Operating Temperature Range (°C)		-25 to +60°C, >45°C Derating	
Permissible Ambient Humidity		0-100%	
Permissible Altitude (m)		3000m	
Noise (dB)		≤35	
Ingress Protection(IP) Rating		IP 65	
Inverter Topology		Transformerless	
Over Voltage Category		OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)		330×410×213.5 (Excluding Connectors and Brackets)	
Weight (kg)		14.8	
Warranty		10 Years	
Type of Cooling		Natural Cooling	
Grid Regulation		AS/NZS 4777.2	
Safety EMC/Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	