

Single Phase String Inverter

SUN-9/10/10.5K-G02P1-EU-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-EU-AM2		SUN-10K-G02P1-EU-AM2		SUN-10.5K-G02P1-EU-AM2	
PV String Input Data						
Max. PV Input Power (kW)	13.5		15		15.8	
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		10		10.5	
Max. AC Output Apparent Power (kVA)	9.9		11		11.55	
Rated AC Output Current (A)	41/39.2		45.5/43.5		47.8/45.7	
Max. AC Output Current (A)	45/43.1		50/47.9		52.5/50.3	
Rated Output Voltage/Range (V)	220/230 0.85Un-1.1Un					
Grid Connection Form	L/N/PE					
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65					
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 Reverse Polarity Protection	Yes					
AC Output Overcurrent Protection	Yes					
AC Output Overvoltage Protection	Yes					
AC Output Short Circuit Protection	Yes					
Thermal Protection	Yes					
Insulation Impedance Detection	Yes					
DC Component Monitoring	Yes					
Arc Fault Circuit Interrupter (AFCI)	Optional					
Anti-islanding Protection	Yes					
Residual Current Detection	Yes					
Surge Protection Level	TYPE II(DC), TYPE II(AC)					
DC Switch	Yes					
Interface						
Communication Interface	RS485/RS232					
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	Non-Isolated					
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	5 Years					
Type of Cooling	Natural Cooling					
Grid Regulation	IEC 61727, IEC 62116, EN 50549, NRS 097, RD 140, UNE 217002, G99					
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					