






Three Phase String Inverter

SUN-3/5/6/8/10/12K-G05-AU



-  2 MPP trackers, Max. efficiency up to 98.3%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

Model	SUN-3K -G05-AU	SUN-5K -G05-AU	SUN-6K -G05-AU	SUN-8K -G05-AU	SUN-10K -G05-AU	SUN-12K -G05-AU
PV String Input Data						
Max. PV Input Power (kW)	4.5	7.5	9	12	15	18
Max. PV Input Voltage (V)	1000					
Start-up Voltage (V)	140					250
MPPT Voltage Range (V)	120-850					200~850
Rated PV Input Voltage (V)	600					
Max. Operating PV Input Current (A)	13+13					
Max. Input Short Circuit Current (A)	19.5+19.5					
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1					
AC Output Data						
Rated AC Output Active Power(kW)	3	5	6	8	10	12
Max. AC Output Apparent Power(kVA)	3	5	6	8	10	12
Rated AC Output current (A)	4.3	7.2	7.8	11.6	14.5	17.4
Max. AC Output Current(A)	4.3	7.2	7.8	11.6	14.5	17.4
Rated Output voltage/range (V)	230V/400V 240V/415V 0.85Un-1.1Un					
Grid Connection Form	3L/N/PE					
Rated Output Grid Frequency/range(Hz)	50Hz/45Hz-55Hz					
Power Factor Adjustment Range	0.8 leading to 0.8 lagging					
Total Current Harmonic Distortion THDi	<3%					
DC Injection Current	<0.5In					
Efficiency						
Max. Efficiency	98.1%	98.2%			98.3%	
Euro Efficiency	97.5%	97.6%			97.8%	
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/RS232/CAN					
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)					
General Data						
Operating Temperature Range (°C)	-25 to +65°C, >45°C Derating					
Permissible Ambient Humidity	0-100%					
Permissible Altitude (m)	4000m					
Noise (dB)	≤ 30 dB(A)					
Ingress Protection(IP) Rating	IP 65					
Inverter Topology	Transformerless					
Over Voltage Category	OVC II(DC), OVC III(AC)					
Cabinet Size (mm)	332W×457H×203D (Excluding Connectors and Brackets)					
Weight (kg)	11					
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					