

Three Phase String Inverter

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



2 MPPT 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
Input Side						
Max. PV Input Power (kW)	4.5	7.5	9	12	15	18
Max. PV Input Voltage (V)	1000					
Start-up PV Input Voltage (V)	140					250
MPPT Operating Range (V)	120-850					200~850
Max. PV Input Current (A)	13+13					
Max. Short Circuit Current (A)	19.5+19.5					
Number of MPPT / Strings per MPPT	2/1					
Output Side						
Rated Output Power (kW)	3	5	6	8	10	12
Max. Active Power (kW)	3	5	6	8	10	12
Nominal Output Voltage / Range (V)	3L/N/PE 400V/340V-440V					
Rated Grid Frequency (Hz)	50 / 60 (Optional)					
Operating Phase	Three phase					
Rated AC Grid Output Current (A)	4.3	7.2	8.7	11.6	14.5	17.4
Max. AC Output Current (A)	4.3	7.2	8.7	11.6	14.5	17.4
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	98.1%	98.2%			98.3%	
Euro Efficiency	97.5%	97.6%			97.8%	
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						
Size (mm)	332W×457H×203D (Excluding connectors and brackets)					
Weight (kg)	11					
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25 to +65					
Ingress Protection	IP65					
Noise Emission (Typical)	≤ 30 dB					
Cooling Concept	Natural cooling					
Max. Operating Altitude Without Derating	4000m					
Warranty	10 Years					
Grid Connection Standard	AS/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	VP-D4B					
AC Connection	IP65 rated plug					
Display	LCD1602					
Interface	RS485/RS232/Wifi/LAN					