






Three Phase String Inverter

SUN- 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 12 K-G05



-  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)

Technical Data

Model	SUN-3K-G05	SUN-4K-G05	SUN-5K-G05	SUN-6K-G05	SUN-7K-G05	SUN-8K-G05	SUN-9K-G05	SUN-10K-G05	SUN-12K-G05
Input Side									
Max. DC Input Power (kW)	3.9	5.2	6.5	7.8	9.1	10.4	11.7	13	15.6
Max. DC Input Voltage (V)	1000								
Start-up DC Input Voltage (V)	140								250
MPPT Operating Range (V)	120~850								200~850
Max. DC 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	4	5	6	7	8	9	10	12
Max. Active Power (kW)	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11	13.2
Nominal Output Voltage / Range (V)	3L/N/PE 380V/323V-418V, 400V/340V-440V								
Rated Grid Frequency (Hz)	50 / 60 (Optional)								
Operating Phase	Three phase								
Rated AC Grid Output Current (A)	4.3	5.8	7.2	8.7	10.1	11.6	13	14.5	17.4
Max. AC Output Current (A)	4.8	6.4	8	9.6	11.2	12.8	14.3	15.9	19.1
Output Power Factor	0.8 leading to 0.8 lagging								
Grid Current THD	<3%								
DC Injection Current (mA)	<0.5%								
Grid Frequency Range	47~52 or 57~62 (Optional)								
Efficiency									
Max. Efficiency	98.3%								
Euro Efficiency	97.83%								
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)	330Wx457Hx185D								330x457x205
Weight (kg)	10								11
Topology	Transformerless								
Internal Consumption	<1W (Night)								
Running Temperature	-25~65°C, >45°C derating								
Ingress Protection	IP65								
Noise Emission (Typical)	<25 dB								
Cooling Concept	Natural cooling								
Max. Operating Altitude Without Derating	2000m								
Designed Lifetime	>20 years								
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11								
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								