

Three Phase String Inverter

SUN- 70 / 75 / 80 / 90 / 100 / 110 K-G03



6 MPP trackers, Max. efficiency up to 98.7%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



Type II DC/AC SPD

Technical Data

Model	SUN-70K-G		SUN-75K-G		SUN-80K-G		SUN-90K-G		SUN-100K-G		SUN-110K-G	
Input Side												
Max. DC Input Power (kW)	91		97.5		104		135		150		150	
Max. DC Input Voltage (V)	1000											
Start-up DC Input Voltage (V)	250											
MPPT Operating Range (V)	200~850											
Max. DC Input Current (A)	40+40+40+40						40+40+40+40+40+40					
Max. Short Circuit Current (A)	60+60+60+60						60+60+60+60+60+60					
Number of MPPT / Strings per MPPT	4/4						6/4					
Output Side												
Rated Output Power (kW)	70		75		80		90		100		110	
Max. Active Power (kW)	77		82.5		88		99		110		121	
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)	101.5		108.7		115.9		130.4		144.9		159.4	
Max. AC Output Current (A)	111.6		119.6		127.5		143.5		159.4		175.4	
Output Power Factor	>0.99											
Grid Current THD	<3%											
DC Injection Current (mA)	<0.5%											
Grid Frequency Range	47~52 or 57~62 (Optional)											
Efficiency												
Max. Efficiency	98.7%											
Euro Efficiency	98.3%											
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)	838W×568H×323D											
Weight (kg)	73.7											
Topology	Transformerless											
Internal Consumption	<1W (Night)											
Running Temperature	-25~65℃ , >45℃ derating											
Ingress Protection	IP65											
Noise Emission (Typical)	<55 dB											
Cooling Concept	Smart 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	LCD 240 × 160											
Interface	RS485/RS232/Wifi/LAN											

