

Three Phase String Inverter

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



-  Max. 6 MPP trackers, Max. efficiency up to 98.8%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-IPD function (Optional)
-  Type II DC/AC SPD

Technical Data

Model	SUN-70K-G03	SUN-75K-G03	SUN-80K-G03	SUN-90K-G03	SUN-100K-G03	SUN-110K-G03
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/0.85Un-1.1Un, 400V/0.85Un-1.1Un				
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		0.8 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				98.8%		
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×324D		838W×568H×346D	
Weight (kg)			81			
Topology			Transformerless			
Internal Consumption			<1W (Night)			
Running Temperature			-25~+65°C, >+45°C derating			
Ingress Protection			IP65			
Noise Emission (Typical)			<55 dB			
Cooling Concept			Smart cooling			
Max. Operating Altitude Without Derating			2000m			
Warranty			5 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 61000-4-1/2/3/4, 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			