






Three Phase String Inverter

SUN-3/4/5/6/7/8/9/10/12K-G03



-  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-G03	SUN-4K-G03	SUN-5K-G03	SUN-6K-G03	SUN-7K-G03	SUN-8K-G03	SUN-10K-G03	SUN-12K-G03
Input Side								
Max. DC Input Power (kW)	3.9	5.2	6.5	7.8	9.1	10.4	13	15.6
Max. DC Input Voltage (V)	1100							
Start-up DC Input Voltage (V)	140							
MPPT Operating Range (V)	120-1000							
Max. DC Input Current (A)	13+13							
Max. Short Circuit Current (A)	19.5+19.5							
No. of MPP Trackers	2							
No. of Strings per MPP Tracker	1+1							
Output Side								
Rated Output Power (kW)	3	4	5	6	7	8	10	12
Max. Active Power (kW)	3.3	4.4	5.5	6.6	7.7	8.8	11	13.2
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)							
Rated Grid Frequency (Hz)	50 / 60 (Optional)							
Operating Phase	Three Phase							
Rated AC Grid Output Current (A)	4.5/4.3	6.1/5.8	7.6/7.2	9.1/8.7	10.6/10.1	12.1/11.6	15.2/14.5	18.2/17.4
Max. AC Output Current (A)	5/4.8	6.7/6.4	8.3/8	10/9.6	11.7/11.1	13.3/12.8	16.7/16	20/19.2
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%							
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)	283W×463H×178D (Excluding Connectors and Brackets)							
Weight (kg)	11							
Topology	Transformerless							
Internal Consumption	<1W (Night)							
Running Temperature	-25-60°C, >45°C Derating							
Ingress Protection	IP65							
Noise Emission (Typical)	<45 dB							
Cooling Concept	Free Cooling							
Permissible Altitude (m)	4000							
Warranty	12Years							
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105							
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							