







# Single Phase String Inverter

SUN-3.6/4/4.6/5/6K-G



-  2 MPP trackers, Max. efficiency up to 97.5%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)
-  Low start-up voltage of 80V

## Technical Data

Model	SUN-3.6K-G	SUN-4K-G	SUN-4.6K-G	SUN-5K-G	SUN-6K-G
<b>Input Side</b>					
Max. DC Input Power (kW)	4.7	5.2	5.98	6.5	7.8
Max. DC Input Voltage (V)	550				
Start-up DC Input Voltage (V)	80				
MPPT Operating Range (V)	70-500				
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				
<b>Output Side</b>					
Rated Output Power (kW)	3.6	4	4.6	5	6
Max. Active Power (kW)	3.96	4.4	5.06	5.5	6.6
Rated Output Voltage/Range (V)	L/N/PE 220/230V (Optional) 0.85Un-1.1Un (this may vary with grid standards)				
Rated Grid Frequency (Hz)	50 / 60 (Optional)				
Operating Phase	Single Phase				
Rated AC Grid Output Current (A)	16.4/15.7	18.2/17.4	20.9/20	22.7/21.7	27.3/26.1
Max. AC Output Current (A)	18/17.2	20/19.1	23/22	25/23.9	30/28.7
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)				
<b>Efficiency</b>					
Max. Efficiency	97.3%	97.5%	97.5%	97.5%	97.5%
Euro Efficiency	97.1%	97.3%	97.3%	97.3%	97.3%
MPPT Efficiency	>99%				
<b>Protection</b>					
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				
<b>General Data</b>					
Cabinet Size (WxHxD mm)	330×323×190 (Excluding Connectors and Brackets)				
Weight (kg)	8				
Topology	Transformerless				
Internal Consumption	<1W (Night)				
Running Temperature	-25-65°C, >45°C Derating				
Ingress Protection	IP65				
Noise Emission (Typical)	≤35 dB				
Cooling Concept	Free Cooling				
Permissible Altitude (m)	2000				
Warranty	5 Years				
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, 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				
<b>Features</b>					
Display	LCD1602				
Interface	RS485/RS232/Wifi/LAN				