



On-grid Three Phase Inverter

Sun trio Plus 4K/5K/6K/8K/10K



Safe and Reliable

- Natural convection for longer life
- IP65 protection

Flexible and Efficient

- MPPT efficiency 99.9%
- Super wide input voltage range

Smart and Easy to Use

- RS485/Ethernet/ Wi-Fi/GPRS modules
- Remote Maintenance

Convenient Installation

- Transformerless, smaller and lighter
- DC&AC quick connector

Technical Data

Suntrio Plus 4K/5K/6K/8K/10K

Type	Suntrio Plus 4K	Suntrio Plus 5K	Suntrio Plus 6K	Suntrio Plus 8K	Suntrio Plus 10K
Input (DC)					
Recommended accessed DC power ¹ [W]	4840	6050	7260	9680	12000
Max. DC Voltage [V]	1000				
MPPT Voltage Range [V]	160-900				
Nominal DC Voltage [V]	600				
Start Voltage [V]	180				
Min. DC Voltage [V]	150				
Max. DC Input Current PV1 / PV2 [A]	11/11		22/11		
Number of MPPT	2				
Number of DC Connection Sets per MPPT	1/1		2/1		
DC Switch	Integrated				
Output (AC)					
Rated AC Power [W] (@230V,50Hz)	4000	5000	6000	8000	10000
Max. AC Power [VA]	4000	5000	6000	8000	10000
Rated AC Current [A]	5.8	7.2	8.7	11.6	14.5
Max. AC Current [A]	6.4	8.1	9.7	12.9	15.9
Nominal AC Voltage / Range	3L/N/PE, 220/380V, 230/400V, 240/415V; 180V-280V/312V-485V				
Grid frequency / Range	50Hz, 60Hz / 44Hz-55Hz, 54-65Hz				
Power factor, Adjustable [cos φ]	0.9 leading~0.9 lagging				
Total Harmonic Distortion [THDi]	< 3% (at nominal power)				
Feed-in	3L+N+PE				
Efficiency					
Max. Efficiency	97.8%	97.8%	97.8%	98.0%	98.0%
Euro Efficiency (at 600Vdc)	97.0%	97.2%	97.4%	97.5%	97.6%
MPPT Accuracy	>99.9%				
Protection					
Internal Over-voltage Protection	Integrated				
DC Insulation Monitoring	Integrated				
DCI / GFCI / Grid Monitoring	Integrated				
AC Short Circuit Current Protection	Integrated				
Thermal Protection	Integrated				
Anti-island protection monitoring	AFD				
Interface					
DC Connection	MC4/H4				
AC Connection	Plug-in connector				
LCD Display	3.5 inch Graphic LCD Display, Backlight, Inverter Parameter and Data Display				
Display Language	English				
Datalogger & Communication	1*RS485 +1*RS232 ; Wi-Fi/GPRS/Ethernet (Optional)				
General Data					
Topology	Transformerless				
Consumption at Night [W]	<0.6				
Consumption at Standby [W]	<10				
Operating Temperature Range	-25°C to +60°C (45°C to 60°C with derating)				
Cooling Method	Natural Convection				
Ambient Humidity	0% to 100% Non-condensing				
Altitude	Up to 2000m (without power derating)				
Noise [dBA]	<29				
Ingress Protection	IP65 (Indoor & Outdoor Installation)				
Mounting	Rear Panel				
Dimensions (H*W*D) [mm]	530*355*190			530*355*200	
Net Weight [kg]	20.5			23.0	
Standard Warranty [Year]	5 (Standard) / 10 / 15 / 20 / 25 (Optional)				
Certificates	IEC/EN62109-1/2, IEC61683, IEC60068-2, IEC62116, IEC61727, EN61000-6-2/3,C10/11,VDE0126-1-1/A1, VDE-AR-N 4105, CQC NB/T 32004, G83/2,EN50438,CEI-021				

Remarks: 1. 1000W/M2 25°C 2. The above parameters might be slightly modified according to different grid codes

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