

Technical Data

Suntrio Plus 25K/30K/33K/40K/50K/60K

Type	Suntrio Plus 25K	Suntrio Plus 30K	Suntrio Plus 33K	Suntrio Plus 40K	Suntrio Plus 50K	Suntrio Plus 60K
Input (DC)						
Recommended accessed DC power ¹ [W]	30300	36000	36300	48400	60500	72000
Max. DC Voltage [V]	1000					
MPPT Voltage Range [V]	280-900					
Nominal DC Voltage [V]	600					
Start Voltage [V]	300					
Min. DC Voltage [V]	250					
Max. DC Input Current PV1 / PV2 [A]	22/22/22		40/30/30			40/40/40
Number of MPPT	3					
Number of DC Connection Sets per MPPT	2/2/2		4/3/3			4/4/4
DC Switch	Integrated					
Output (AC)						
Rated AC Power [W](@230V,50Hz)	25000 ² /25000	30000	30000	40000	50000	60000
Max. AC Power [VA]	25000/27500	30000	33000	44000	55000	60000
Rated AC Current [A]	37.9	43.5	45.5	58.0	72.5	87.0
Max. AC Current [A]	42.0	50.0	50.0	65.0	80.0	90.0
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]	0.8 leading~0.8 lagging					
Total Harmonic Distortion (THDi)	< 3% (at nominal power)					
Feed-in	3L+N+PE					
Efficiency						
Max. Efficiency	98.6%	98.8%	98.8%	98.8%	98.8%	98.9%
Euro Efficiency (@ 600Vdc)	98.4%	98.5%	98.5%	98.5%	98.5%	98.6%
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					
AC Surge Protection	II (Integrated)					
String Current Monitoring	Integrated					
DC Surge Protection	II (Integrated)					
DC Fuse	Optional					
Anti-island protection monitoring	AFD					
Interface						
DC Connection	MC4/H4					
AC Connection	Terminal Block					
LCD Display	3.5 inch Graphic LCD Display, Backlight					
Display Language	English					
Communication port	2*RS485+1*RS232					
Communication	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	Intelligent fan					
Ambient Humidity	0% to 100% Non-condensing					
Altitude	3000m (> 2000m power derating)					
Noise [dBA]	<35					
Ingress Protection	IP65 (Indoor & Outdoor Installation)					
Mounting	Rear Panel					
Dimensions (H*W*D) [mm]	700*530*260			800*550*280		
Weight [kg]	48			68		
Standard Warranty [Year]	5 (Standard) / 10 / 15 / 20 / 25 (Optional)					
Certificates	IEC/EN62109-1/2, EN61000-6-2/3, IEC61683, IEC60068-2, IEC62116, IEC61727, VDE0126-1-1/A1, VDE-AR-N 4105, CQC NB/T 32004, G83/2,NBR 16149, NBR 16150,C10/11,EN50438, Rd1669, UNE206006,UNE206007,G59/3					

Remarks: 1. 1000W/M2 25°C 2. Applicable to Belgian grid standatrd. 3.The above parameters might be slightly modified accordng to different grid codes.