Technical Data

Suntrio Plus 12K/15K/17K/20K

Type	Suntrio Plus 12K	Suntrio Plus 15K	Suntrio Plus 17K	Suntrio Plus 20K
Input (DC)				
Recommended accessed DC power[1] [W]	14520	18150	20570	24200
Max. DC Voltage [V]				
MPPT Voltage Range [V]		180-900		
Nominal DC Voltage [V]				
Start Voltage [V]		200		
Min. DC Voltage [V]		180		
Max. DC Input Current PV1 / PV2 [A]	22/11	22/22		
Number of MPPT		2		
Number of DC Connection Sets per MPPT	2/1	2/2		
DC Switch				
Output (AC)				
Rated AC Power [W](@230V,50Hz)	12000	15000	17000	20000
Max. AC Power [VA]	13200	16500	18700	22000
Rated AC Current [A]	17.4	21.7	25.8	29.0
Max. AC Current [A]	20.0	25.0	28.3	33.0
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	98.3%	98.4%	98.5%	98.5%
Euro Efficiency (@ 600Vdc)	98.0%	98.1%	98.2%	98.2%
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	Ⅲ (Integrated) , Ⅱ (Optional)			
String Current Monitoring	Integrated			
DC Surge Protection	Ⅱ (Optional)			
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]	640*450*232			
Weight [kg]	29		33	
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℃