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On-grid Three Phase Inverter

Suntrio Plus 12K/15K/17K/20K/25K/30K/33K/40K/50K/60K



All Quality Matters | 2018 Solar Congress | TÜV Rheinland® Precisely Right.

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|---|--|---|---|
| Safe and Reliable <ul style="list-style-type: none">• IP65 protection• DC&AC surge protection | Flexible and Efficient <ul style="list-style-type: none">• MPPT efficiency 99.9%• Three MPPTs• Super wide input voltage range | Smart and Easy to Use <ul style="list-style-type: none">• One-button configuration• Remote Maintenance• Integrated string current monitoring | Convenient Installation <ul style="list-style-type: none">• Aluminum case design• Separate area for maintenance |
|---|--|---|---|

Technical Data

Suntrio Plus 12K/15K/17K/20K/25K/30K/33K/40K/50K/60K

Type	Suntrio Plus 12K	Suntrio Plus 15K	Suntrio Plus 17K	Suntrio Plus 20K	Suntrio Plus 25K	Suntrio Plus 30K	Suntrio Plus 33K	Suntrio Plus 40K	Suntrio Plus 50K	Suntrio Plus 60K				
Input (DC)														
Max. PV Array Power [Wp]@STC	18000	22500	25500	26000	37500	40000	40000	60000	65000	78000				
Max. DC Voltage [V]					1000									
MPPT Voltage Range [V]	180-900							280-900						
Nominal DC Voltage [V]					600									
Start Voltage [V]	200							300						
Min. DC Voltage [V]	180							250						
Max. DC Input Current PV1 / PV2 [A]	22/11	22/22			22/22/22			44/33/33		44/44/44				
Number of MPPT	2							3						
Number of DC Connection Sets per MPPT	2/1	2/2			2/2/2			4/3/3		4/4/4				
DC Switch	Integrated													
Output (AC)														
Rated AC Power [W]	12000	15000	17000	20000	25000	30000 ^{*1}	30000	40000	50000	60000				
Max. AC Power ^{*2} [VA]	13200	16500	18700	22000	27500	30000	33000	44000	55000	60000				
Rated AC Current [A] @230Vac	17.4	21.7	25.8	29.0	37.9	43.5	45.5	58.0	72.5	87.0				
Max. AC Current [A]	20.0	25.0	28.3	33.0	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	98.3%	98.4%	98.5%	98.5%	98.6%	98.8%	98.8%	98.8%	98.8%	98.9%				
Euro Efficiency	98.0%	98.1%	98.2%	98.2%	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	Ⅲ (Integrated) , Ⅱ (Optional)				Ⅱ (Integrated)									
String Current Monitoring					Integrated			Ⅱ (Integrated)						
DC Surge Protection	Ⅱ (Optional)													
DC Fuse														
Anti-island protection monitoring	Optional 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℃ to +60℃ (45℃ to 60℃ with derating)													
Cooling Method	Intelligent fan													
Ambient Humidity	0% to 100% Non-condensing													
Altitude	3000m (> 2000m power derating)													
Noise [dBA]	<35													
Ingress Protection	IP65													
Mounting	Rear Panel													
Dimensions (H*W*D) [mm]	640*450*232				700*530*260			800*550*280						
Weight [kg]	29			33	48			68						
Standard Warranty [Year]	5 (Standard) / 10 / 15 / 20 / 25 (Optional)													
Applicable Standard	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} According to AS4777, Rated AC Power for Suntrio Plus 30K is 29999VA.

^{*2} According to C10/C11, Max. AC Power = Rated AC Power