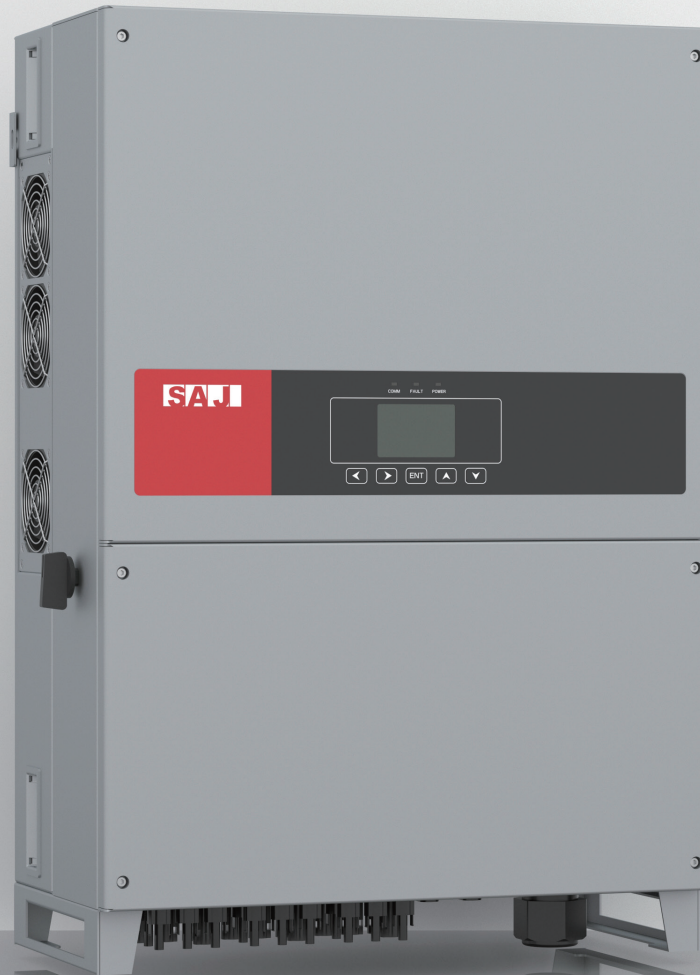


Suntrio Plus 25K/30K/33K/40K/50K/60K



Safe & Reliable

IP65 protection
DC&AC surge protection

Flexible & Efficient

MPPT efficiency 99.9%
Three MPPT for optimal yield
Super wide input voltage range

Smart & Easy to Use

Remote maintenance
Integrated string current monitoring

Convenient Installation

Aluminum case design
Separate area for maintenance

Technical Data

Model	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	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[A]	22/22/22			44/33/33		44/44/44
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]	25000	30000 ^{*1}	30000	40000	50000	60000
Max. AC Power ^{*2} [VA]	27500	30000	33000	44000	55000	60000
Rated AC Current [A] @230Vac	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	3/N/PE, 220/380V, 230/400V, 240/415V; 180V-280V/312V-485V					
Grid Frequency / range	50Hz, 60Hz / 44Hz-55Hz, 54-65Hz					
Power Factor [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	>99.5%					
Protection						
Internal Over-voltage Protection	Integrated					
DC Insulation Monitoring	Integrated					
DCI Monitoring	Integrated					
GFCI Monitoring	Integrated					
Grid Monitoring	Integrated					
AC Short Circuit Current Protection	Integrated					
LVRT	Integrated					
Thermal Protection	Integrated					
AC Surge Protection	Integrated (II)					
String Current Monitoring	Integrated					
Anti-PID Module	Optional					
DC Surge Protection	Integrated (II)					
DC Fuse	Optional					
Anti-island protection monitoring	AFD					
Interface						
DC Connection	MC4/H4					
AC Connection	Terminal Block					
LCD & LED Display	3.5 inch Graphic LCD Display					
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)					
Applicable Standard	IEC62109-1/2, IEC61000-6-2/3, IEC61683,IEC60068-2,IEC62116,IEC61717,PEA/MEA,NRS 097-2-1, UTE-C-15-712-1,VDE0126-1-1/A1, VDE-AR-N 4105, AS4777.2,AS4777.3,C-TICK,CQC NB/T 32004, G83-2,G59-3,NBR 16149,NBR 16150,TF 3.2.1					

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