

On-grid Single Phase Inverter

Sununo Plus 3K-M/4K-M/5K-M



BENEFITS

Flexible and Efficient

- Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%
- Asymmetric dual MPPT that are compatible with all types of solar arrays
- Max. efficiency of 97.6%, European efficiency of 97.2%
- Super wide input voltage range(80V-600V), supporting all varieties of solar panels and string desings
- With reduced derating under high temperature, the generating capacity is improved

Convenient Installation

- Transformerless, smaller and lighter
- AC output quick connector design, for faster installation
- Specialized mounting design, easy to install

Smart and Easy to Use

- One-button safety setting, easy configuration of all parameters
- Built-in independent RTC chip, supporting data storage of 25 years
- Integrated RS232 / Wi-Fi interfaces, for improved communication
- Free monitoring anytime anywhere
- Local and remote intelligent maintenance by PC, IOS and Android devices
- Responds to power grid dispatching, energy management of micro-grids
- Integrated with the function of reactive adjusting

Safe and Reliable

- IP65 protection for indoor and outdoor installation
- Aluminum case design to enhance heat dissipation and prevent rust corrosion, prolong life time
- Optional built-in high voltage DC switch for safer maintenance and application
- Natural convection for longer life



ANTARES
TECHNOLOGY

Technical Data

Sununo Plus 3K-M/4K-M/5K-M

Type	Sununo Plus 3K-M	Sununo Plus 4K-M	Sununo Plus 5K-M
Input (DC)			
Max. DC Power [W]	3500	4600	5300
Max. DC Voltage [V]		600	
MPPT Voltage range [V]		90-550	
Nominal DC Voltage [V]		360	
Start Voltage [V]		100	
Min. DC Voltage [V]		80	
Max. DC Input Current PV1 / PV2 [A]		11/11	
Number of DC Connection Sets per MPPT		1/1	
Number of MPPT		2	
DC Switch		Optional	
Output (AC)			
Rated AC Power [VA] (@230V,50Hz)	3000	3680 ² /4000	4600 ² /5000
Max. AC Power [VA]	3300	3680/4400	4600/5000
Rated AC Current [A]	13.0	16.0/17.4	20.0/21.7
Max. AC Current [A]	15.9	16.0/21.0	22.2/24.2
Nominal AC voltage/ range		220V, 230V, 240V/180V-280V	
Grid frequency/ range		50Hz, 60Hz/±5Hz	
Power factor [cos φ]	>0.99 [full load]		0.9 leading~0.9 lagging
Total Harmonic Distortion [THDi]		< 3%	
Feed-in Phase / Connection Phase		1/1	
Efficiency			
Max. Efficiency	97.4%	97.5%	97.6%
Euro Efficiency [at 360Vdc]	97.0%	97.1%	97.2%
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	
Thermal Protection		Integrated	
Anti-island protection monitoring		AFD	
Interface			
AC Connection		Plug-in connector	
DC Connection		MC4/H4	
LCD / LED Display		LCD (16x2 Characters, Backlight) / LED (3 Lights)	
Display Language		English	
Datalogger & Communication		RS232 (Standard) / Wi-Fi (Optional)	
General Data			
Topology		Transformerless	
Consumption at Night [W]		<0.2	
Consumption at Standby [W]		6	
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 derating)	
Noise [dBA]		<25	
Ingress Protection		IP65 (Indoor & Outdoor Installation)	
Mounting		Rear Panel	
Dimensions (H*W*D) [mm]		454*355*150	
Net Weight [kg]		14.8	
Warranty [Year]		5 (Standard) / 10 / 15 / 20 / 25 (Optional)	
Certificates		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, NBR 16149, NBR 16150, TF 3.2.1, C10/11	

Remarks: 1. Meet the grid standard that AC current per phase not exceeding 16A.
2. Meet the VDE-ARN-N 4105 that biggest apparent power of single-phase is 4600 VA.