

On-grid Single Phase Inverter

Sununo Plus 1K/1.5K



BENEFITS

Flexible and Efficient

- Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%
- Max. efficiency of 97.2%, European efficiency of 96.7%
- Super wide input voltage range(50V-450V), supporting system with a minimum of 3 solar panels
- With reduced derating under high temperature, the generating capacity is improved

Convenient Installation

- Transformerless, smaller and lighter up to 5.6kg
- AC output quick connector design, for faster installation

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

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

Technical Data

Sununo Plus 1K/1.5K

Model	Sununo Plus 1K	Sununo Plus 1.5K
Input (DC)		
Max. DC Power [W]	1200	1800
Max. DC Voltage [V]	450	
MPPT Voltage range [V]	60-425	
Nominal DC Voltage [V]	360	
Start Voltage [V]	70	
Min. DC Voltage [V]	50	
Max. DC Input Current [A]	11	
Number of DC Connection Sets per MPPT	1	
Number of MPPT	1	
Output (AC)		
Rated AC Power [W]	1000	1500
Max. AC Power [W]	1100	1650
Rated AC Current [A]	4.3	6.5
Max. AC Current [A]	5.3	7.9
Nominal AC voltage/ range	220V, 230V, 240V/180V-280V	
Grid frequency/ range	50Hz, 60Hz/±5Hz	
Power factor [cos φ]	>0.99 [full load]	
Total Harmonic Distortion [THDi]	< 3%	
Feed-in	1L+N+PE	
Efficiency		
Max. Efficiency	97.1%	97.2%
Euro Efficiency [at 360Vdc]	96.6%	96.7%
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	
Communication port	RS232 &DRM	
Communication	WiFi/GPRS/Ethernet(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]	<15	
Ingress Protection	IP65 (Indoor & Outdoor Installation)	
Mounting	Rear Panel	
Dimensions (H*W*D) [mm]	315*260*120	
Net Weight [kg]	5.6	
Standard 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, AS4777.2-2015	