

# SAJ

## SAJ Solar Inverter Sununo Plus 1K/1.5K



new

### 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

Type	Sununo Plus 1K	Sununo Plus 1.5K
<b>Input (DC)</b>		
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
DC Switch		optional
<b>Output (AC)</b>		
Rated AC Power [W]	1000	1500
Max. AC Power [W]	1100	1650
Rated AC Current [A]	4.3	6.5
Max. AC Current [A]	4.8	7.2
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 Phase / Connection Phase	1/1	
<b>Efficiency</b>		
Max. Efficiency	97.1%	97.2%
Euro Efficiency [at 360Vdc]	96.6%	96.7%
MPPT Accuracy	>99.5%	
<b>Protection</b>		
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	
<b>Interface</b>		
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 )	
<b>General Data</b>		
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, C10/11	

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# SAJ

## SAJ Solar Inverter Sununo Plus 2K/2.5K/3K



new

### BENEFITS

#### Flexible and Efficient

- Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%
- Max. efficiency of 97.6%, European efficiency of 97.1%
- Super wide input voltage range(50V-500V/550V), 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 7.8kg
- 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

# SAJ Solar Inverter Technical Data



## Sununo Plus 2K/2.5K/3K

Type	Sununo Plus 2K	Sununo Plus 2.5K	Sununo Plus 3K
<b>Input (DC)</b>			
Max. DC Power [W]	2400	2900	3200
Max. DC Voltage [V]	500		550
MPPT Voltage range [V]	60-450		60-500
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	
DC Switch		optional	
<b>Output (AC)</b>			
Rated AC Power [W]	2000	2500	3000
Max. AC Power [W]	2200	2750	3000
Rated AC Current [A]	8.7	10.9	13.0
Max. AC Current [A]	10.6	12.8	14.5
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 Phase / Connection Phase		1/1	
<b>Efficiency</b>			
Max. Efficiency	97.4%	97.5%	97.6%
Euro Efficiency [at 360Vdc]	96.9%	97.0%	97.1%
MPPT Accuracy		>99.5%	
<b>Protection</b>			
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	
<b>Interface</b>			
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 )	
<b>General Data</b>			
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]		354*305*120	
Net Weight [kg]	7.8	8.3	8.4
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, C10/11		

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## SAJ Solar Inverter Sununo Plus 3K-M/4K-M/5K-M



new

### 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

# SAJ Solar Inverter Technical Data



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

Type	Sununo Plus 3K-M	Sununo Plus 4K-M	Sununo Plus 5K-M
<b>Input (DC)</b>			
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	
<b>Output (AC)</b>			
Rated AC Power [VA] (@230V,50Hz)	3000	3680 <sup>1</sup> /4000	4600 <sup>2</sup> /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]	15.0	16.0/21.0	25.0
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	
<b>Efficiency</b>			
Max. Efficiency	97.4%	97.5%	97.6%
Euro Efficiency [at 360Vdc]	97.0%	97.1%	97.2%
MPPT Accuracy		>99.5%	
<b>Protection</b>			
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	
<b>Interface</b>			
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 )	
<b>General Data</b>			
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	
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, TF 3.2.1, 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, 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.

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# SAJ

## SAJ Solar Inverter Suntrio Plus 4K/5K/6K/8K/10K



new

### BENEFITS

#### Flexible and Efficient

- Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%
- Asymmetric dual MPPT which are compatible to all kinds of solar roofs
- Max. efficiency of 98.0%, European efficiency of 97.6%
- Super wide input voltage range(150V-1000V), 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
- Spaciaized mountingl 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 LCD graphical display, showing daily/monthly/yearly generating capacity
- 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
- Built-in high voltage DC switch for safer maintenance and application
- Built-in convective fans to lower the temperature of core components, prolong life time
- Natural convection for longer life

# SAJ Solar Inverter Technical Data

## Suntrio Plus 4K/5K/6K/8K/10K



Type	Suntrio Plus 4K	Suntrio Plus 5K	Suntrio Plus 6K	Suntrio Plus 8K	Suntrio Plus 10K
<b>Input (DC)</b>					
Max. DC Power [W]	4200	5300	6300	8400	10500
Max. DC Voltage [V]	1000				
MPPT Voltage Range [V]	160-900				
Nominal DC Voltage [V]	600				
Start Voltage [V]	180				
Min. DC Voltage [V]	150				
Max. DC Input Current PV1 / PV2 [A]	11/11				22/11
Number of MPPT			2		
Number of DC Connection Sets per MPPT	1/1				2/1
DC Switch	Integrated				
<b>Output (AC)</b>					
Rated AC Power [VA] (@230V,50Hz)	4000	5000	6000	8000	10000
Max. AC Apparent Power [VA]	4000	5000	6000	8000	10000
Rated AC Current [A]	5.8	7.2	8.7	11.6	14.5
Max. AC Current [A]	6.4	8.1	9.7	12.9	15.9
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, Adjustable [cos φ]	0.9 leading~0.9 lagging				
Total Harmonic Distortion [THDi]	< 3% ( at nominal power )				
Feed-in Phase / Connection Phase	3/3				
<b>Efficiency</b>					
Max. Efficiency	97.8%	97.8%	97.8%	98.0%	98.0%
Euro Efficiency (at 600Vdc)	97.0%	97.2%	97.4%	97.5%	97.6%
MPPT Accuracy	>99.5%				
<b>Protection</b>					
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				
<b>Interface</b>					
DC Connection	MC4/H4				
AC Connection	Plug-in connector				
LCD Display	3.5 inch Graphic LCD Display, Backlight, Inverter Parameter and Data Display				
Display Language	Multi Language				
Datalogger & Communication	1*RS485 / 1*RS232 / Wi-Fi ( Optional )				
<b>General Data</b>					
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	Natural Convection				
Ambient Humidity	0% to 100% Non-condensing				
Altitude	Up to 2000m (without power derating)				
Noise [dBA]	<29				
Ingress Protection	IP65 ( Indoor & Outdoor Installation )				
Mounting	Rear Panel				
Dimensions (H*W*D) [mm]	530*355*190				530*355*200
Net Weight [kg]	20.5				23.0
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, C10/11				

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