

# SOLAR INVERTER



## Sunways Solar Inverter NTX 5000

**AC output: 5.0 kW**

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Sunways Solar Inverter NTX 5000 has been specially designed for small and mid-range systems for North American markets. Sunways Solar Inverter NTX 5000 can adapt to most of roof types and modules, due to the higher flexibility benefited from wide MPP tracking voltage range. With a maximum efficiency of 97.7% and an integrated built-to-last concept, this inverter offers an improved product quality and an excellent durability.

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### Top technologies combined in one device:

Dual MPP tracking, ensuring a fast and precise control in each output range. Transformerless topology. Suitable for indoor and outdoor installation (NEMA 3R).

### New features

With peak efficiencies of 97.7% and an input voltage range from 150 to 550 V, the new NTX 5000 inverter offers an optimum yield for many interconnection options.

NTX 5000 inverter has been tested and listed by Canadian Standards Association to fulfill the requirements of UL Standard No. 1741 and CSA-C22.2 No.107.1-01. These standards are required by most utilities in the US and Canada to assure a proper and safe operation of the interconnected generation equipment with the power grid.

### User-friendly

User-friendly interface and easy-setting multilingual LCD display screen.

Easy configuration for different country grid standards. Ethernet and RS485 data interfaces.

### Information and Sales

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Photovoltaic Technology

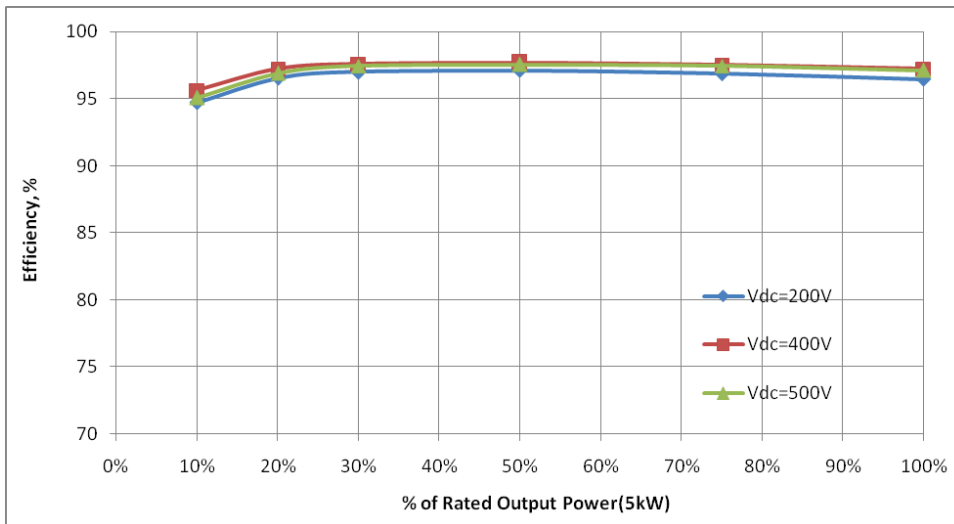
## Technical Data Sunways Solar Inverters NTX 5000

NTX 5000	
Order number	SI250TX5A
<b>DC Input</b>	
Rated DC power	5750 W
Maximum DC current	14,5 A per MPP input
Nominal DC voltage	400 V
MPP voltage range	200 V...500 V
Maximum voltage DC	550 V
Number of inputs per MPP tracker	2
Number of MPP trackers	2
<b>AC output</b>	
Rated AC output power	5000 W
Maximum AC power	5500 W
Nominal AC current	24A @208V ; 21A @240V
Maximum AC current	30A @208V ; 30A @240V
Nominal frequency	60 Hz
Frequency range	59,3 Hz...60,5 Hz
Grid voltage	Default: 240V (split phase); Option: 208V (single phase)
AC voltage range	183V...229V @208V ; 211V...264V @240V
Distortion factor at Pn	< 3%
Reactive power factor (cos phi)	>0,99
Required phases, number of grid connections	1 (N, L1, L2, PE)
<b>Performance</b>	
Stand-by consumption	<10 W
Night-time consumption	0,1 W
Maximum efficiency	97,7%
CEC efficiency	97,0%
MPP efficiency (static)	99,5%
Switching concept	transformerless
<b>Other</b>	
DC switch	integrated
Grid-connection fuse layout	30 A
Data interfaces	Ethernet, RS485
Display	LCD
Ingress protection	NEMA 3R
Max. relative humidity	95%
Max. altitude over sea level	2000 m
Cooling	natural convection
Ambient temperature	-25°C...60°C (-13°F...140°F)
Overload behaviour	working point adjustment
Dimensions (height x width x depth)	58,0 x 38,0 x 20,3 cm (22,83in. x 14,96in x 7.99in.)
weight	27,5 kg (60,6lbs)
Type of installation	wall installation
Noise development	< 40 dB (A)
<b>Standard Warranty (option)</b>	
Certificates	UL 1741, IEEE 1547, FCC Part 15 (Class A & B), CSA C22.2 No.107.1

Subject to technical changes, as at 10/2012

Assembled in Ontario

Efficiency curve NTX 5000



Power Level (%; kW)

Input Voltage (Vdc)	10%	20%	30%	50%	75%	100%	Wtd	
Vmin	200 V	94,7	96,5	97,0	97,1	96,9	96,4	96,8
Vnom	400 V	95,6	97,2	97,6	97,7	97,5	97,2	97,4
Vmax	500 V	95,1	96,9	97,4	97,5	97,5	97,1	97,3