

SITE INVERTER SERIES

300 Watt 1RU DC to AC Sine Wave Inverter for AC Powered Wireless Communications Equipment



The ICT SITE INVERTER 300 is a 1RU true sine wave inverter that is designed to convert your site's 12, 24, or 48 volt DC power into 300 watts of high quality 115 volt AC power, and be mounted in a 19 inch equipment rack at communications sites. The ICT Site Inverter 300 provides 300 watts, of true sine wave output with extremely low harmonic distortion and low idle current draw. The isolated DC inputs, AC outlets and grounding stud are all located on the back of the inverter, close to where the wiring connections are.

With proven ICT quality and reliability designed in, and manufactured in North America by ICT, the Site Inverter 300 provides unsurpassed functionality, scalability, and peace of mind for providing AC power at your DC-powered communications sites.

A Rack-Optimized Solution

AC components at communications sites often require less than 300 watts of AC power. These include routers, switches, PoE hubs, alarms and monitoring equipment, digital video recorders, access control systems, or laptops and test equipment.

Reliability

High reliability is achieved through careful design that virtually eliminates internal wiring and connections that can fail. All components are carefully selected and no substitutes are permitted. Built-in protection features protect the inverter from most abnormal conditions. The brush-less, ball bearing fan pulls in cool air from the front, so no extra clearance is required around the unit.

Every inverter is built in North America by ICT and extensively tested before it leaves the factory. The ICT Site Inverter 300 comes with a two-year warranty.

Performance and Flexibility

The ICT Site Inverter 300 provides 300 watts of true sine wave AC power. Designed to FCC Class B spec, with extremely low harmonic distortion and high quality pure sine wave output, this inverter is ideal for communications site equipment. The inverter can handle high starting surges, and will provide its full output power up to 60 degrees C.

Optional accessories include a 1RU or 2RU 19" Rack Mount Tray.



Optional 1RU 19-inch Rack Mount Tray (shown) integrates easily into site infrastructure

Energy Saving Design

With one of the highest efficiency designs available at this power level, and lowest idle current draw ratings, you can be assured that most of your power is going into running your loads. The thermally controlled fan only turns on when extra cooling is required.

TECHNICAL SPECIFICATIONS

Output Specifications	ICT300-12SNV	ICT300-24SNV	ICT300-48SNV
AC Output Voltage	115VAC (+/- 5V)	115VAC (+/- 5V)	115VAC (+/- 5V)
AC Output Frequency	60Hz (+/- 0.05%)	60Hz (+/- 0.05%)	60Hz (+/- 0.05%)
Total Harmonic Distortion	< 3% THD	< 3% THD	< 3% THD
Continuous Output Power (single inverter)	300 Watts / 2.6 Amps	300 Watts / 2.6 Amps	300 Watts / 2.6 Amps
Maximum Surge Power (single inverter)	600 Watts (for 3 seconds)	600 Watts (for 3 seconds)	600 Watts (for 3 seconds)

Input Specifications

Efficiency (full load)	91%	91%	93%
No-load power consumption	4 Watts	4 Watts	4 Watts
Input Voltage Range	+/- 10.5 - 16.0VDC	+/- 21.0 - 32.0VDC	+/- 42.0 - 64.0VDC

Protection Features

Under Voltage (Inverter will automatically reset when the under voltage condition is cleared).	Automatic Shutdown at 10.5VDC	Automatic Shutdown at 21.0VDC	Automatic Shutdown at 42.0VDC
Over Voltage (Inverter will automatically reset when the over voltage condition is cleared).	Automatic Shutdown at 16.0VDC	Automatic Shutdown at 32.0VDC	Automatic Shutdown at 64.0VDC
Overload	Inverter is designed to withstand 600W for up to 3 seconds. If a continuous load in excess of this rating is experienced, the inverter will automatically shut down.		
Short Circuit/Reverse Polarity	Internal fuse will protect the inverter from damage.		
Over Temperature	Inverter will shut down when ambient temperature exceeds +85C, and automatically restart when over-temp condition is resolved.		
Cooling Fan	Automatic, thermostatically controlled.		

General

Operating Temperature	-20°C to +60°C with no derating
Dimensions L x W x H (inches)	8.6 x 5.2 x 1.71
Status Indicators	Front Panel LED's for AC Status and Fault Conditions
Weight (lbs/kg)	2.2 lbs

Connectors

DC Input	Clamp terminal block
AC Output	Dual NEMA 5-15R North American Receptacles
Chassis Grounding	8-32 Inch Screw With Lock Washer

Safety / Emissions

Designed to meet CSA 1741 and FCC Class B

Ordering Information (ICT-RM1U and ICT-RM2U must be ordered separately)

Description	Model Number
Power inverter, 12VDC input, 115VAC 300W output	ICT300-12SNV
Power inverter, 24VDC input, 115VAC 300W output	ICT300-24SNV
Power inverter, 48VDC input, 115VAC 300W output	ICT300-48SNV
1RU, 19 inch rack mount kit for 1, 2, or 3 inverters	ICT-RM1U
2RU, 19 inch rack mount kit for 1, 2, or 3 inverters	ICT-RM2U

