



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 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 links, multiplexers, PoE hubs, alarms and monitoring equipment, digital video recorders, access control systems, or laptops and test equipment.



All connectors are on the back, close to your rack wiring connections

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 brushless, 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 19" Rack Mount Tray, and a kit that provides two front auxiliary outlets when AC power is required on the front of the rack.



Optional 1RU 19-inch Rack Mount Tray 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.

Output Specifications	ICT300-12SNV	ICT300-24SNV	ICT300-48SNV
AC Output Voltage	120VAC (+/- 5V)	120VAC (+/- 5V)	120VAC (+/- 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	ICT300-12SNV	ICT300-24SNV	ICT300-48SNV
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	ICT300-12SNV	ICT300-24SNV	ICT300-48SNV
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	ICT300-12SNV
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	ICT300-12SNV
DC Input	1/4 Inch Bronze Studs
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, ICT-RM2U and ICT-ACF must be ordered separately)

Description	Model Number
Power inverter, 12VDC input, 120VAC 300W output	ICT300-12SNV
Power inverter, 24VDC input, 120VAC 300W output	ICT300-24SNV
Power inverter, 48VDC input, 120VAC 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
Dual front AC outlet accessory kit	ICT-ACF



ICT-ACF front AC outlet accessory kit provides two AC outlets at front of equipment rack. (Requires ICT-RM1U or ICT-RM2U with one ICT Site Inverter 300 installed). Comes with mounting hardware and AC extension cord.

