



SITE INVERTER 300

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



Three Site Inverter 300 units mounted on a single 1RU 19-inch rack provides 900 watts of power and six AC outlets.



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

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, or 2.6 amps, 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.

AC components at communications sites often require less than 300 watts of AC power. These include links, multiplexers, PoE bridges, alarms and monitoring equipment, security systems and digital video recorders, access control systems, or laptops and test equipment. If more power is required, the scalable design of the ICT Site Inverter 300 means that one, two or three inverters can be mounted on a single 1RU 19-inch rack shelf, saving valuable rack space while providing up to 900 watts of power and six AC outlets (non-parallel).

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 Scalable Solution

The ICT Site Inverter 300 is designed specifically to power AC components at your DC communications site. Many AC-powered components typically require 10 to 150 watts of power, so the scalability of the Site Inverter 300 means that you can match the inverter system size to your requirements, all the way up to 900 watts (non-parallel) and six AC outlets. You can start with a single inverter, and add one or two more at any time in the future, without giving up additional rack space.

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 kit, a wall mount bracket for a single inverter when rack mounting is not required, and a kit that provides two AC outlets on the front of the rack.

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.

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.



	ICT300-12SNV	ICT300-24SNV	ICT300-48SNV
Output Specifications			
AC Output Voltage	115VAC (+/- 5V)	115VAC (+/- 5V)	115VAC (+/- 5V)
AC Output Frequency	60Hz (+/- 0.1%)	60Hz (+/- 0.1%)	60Hz (+/- 0.1%)
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 (peak)	> 91%	> 91%	93%
Efficiency (full load)	90%	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
General			
Operating Temperature	-20C to +60C at full power		
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		
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 temperature exceeds +85C, and automatically restart when over-temp condition is resolved.		
Cooling Fan	Automatic, thermostatically controlled, high quality ball bearing		
Connectors			
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 CSA 1741 and FCC Class B guidelines			

ORDERING GUIDE (ICT-RMK3, ICT-SWB and ICT-ACF 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-RMK3
Wall mount bracket for single inverter	ICT-SWB
Dual front mounted AC NEMA5-15R outlet kit	ICT-ACF



SITE INVERTER 300 with ICT-SWB wall mount bracket.



ICT-ACF front AC outlet accessory kit provides two AC outlets at front of equipment rack. (Requires ICT-RMK3 with one ICT Site Inverter 300 installed). Comes with mounting hardware and AC extension cord.