SINE WAVE SERIES

1500 Watt DC to AC Pure Sine Wave Inverter for 115 or 230 Volt AC Applications

115 VAC Output Model Shown

High Performance and Reliability with Standard TCP/IP Monitoring and Control with Integrated Static Transfer Switch

Features

- **1500 watts** of pure sine wave power
- **3000 watt** surge capability
- **115 or 230 volt** AC output
- **48, 24 or 12 volt** DC input
- **90 to 93%** efficiency
- **-30 C to +60 C** operating temperature range
- **TCP/IP Ethernet** is standard on every model for complete and easy-to-use remote monitoring and control of the inverter using secure built-in web server and graphical user interface
- **Static Transfer switch** is standard and provides automatic transfer to battery when AC mains fail
- **Available options include:**
  - Rack mounting tray
  - DC wiring box for electrical code compliance
- **Certifications** include CSA/UL, FCC, CE, ROHS
- **Easy** to install, set up and use

Description

The ICT Sine Wave Series is a pure sine wave 1500 watt inverter that converts 48, 24 or 12 volts DC to ultra-clean 115 or 230 volts AC output at 93% peak efficiency. Every Sine Wave Series model includes TCP/IP Ethernet for remote monitoring and control and a fast statis transfer switch to allow switching between the inverter and AC grid or generator power. 115 volt AC models have two NEMA 5-15 outlets on the front as well as AC output connectors on the back. 230 volt AC models have the AC output connector on the back only.

With its TCP/IP Ethernet connectivity, a user can monitor the inverter, AC and battery conditions, receive alarm notifications by email, or power-cycle the outputs to reboot connected AC loads. Access from a thin client is through a secure web connection. SNMP is also supported for integration into a network management system.

The Sine Wave Series is designed and built in North America by ICT to ensure the highest quality control and reliability.

Applications

- Wireless two-way communications networks
- Trunked radio systems
- Backhaul
- Small cell
- Security and surveillance
- Industrial DC power
- Renewable energy systems

Power Specifications

Continuous Output Power	1500 Watts
Surge Power Output (2 seconds)	3000 Watts
Peak Efficiency	93%
Input Voltage Range - 12V	10.5 - 16.0VDC
Input Voltage Range - 24V	21.0 - 32.0VDC
Input Voltage Range - 48V	42.0 - 64.0VDC
Low Voltage Shutdown- 12V	10.5VDC
Low Voltage Shutdown- 24V	21.0VDC
Low Voltage Shutdown- 48V	42.0VDC
No Load Current Draw	<18 Watts
Output Voltage	115VAC +/- 5VAC
Frequency Range - 115VAC	60Hz +/-0.2Hz
Output Voltage	230VAC +/- 10VAC
Frequency Range - 230VAC	50Hz +/-0.2Hz
Harmonic Distortion (typical)	< 3%

Environment

Operating Temperature Range	-30°C to +60°C
Temperature Controlled Fan	

Standards

CSA22.2 No. 60950-1, FCC Class A, CE, ROHS

Warranty

Two years

Mechanical

Dimensions (L x W x H)	12.9 x 8.1 x 2.6 in. / 328 x 205 x 65 mm
Weight	8.0 lbs / 3.6 kg
DC Input Connectors (rear)	Bus bars, 5/16" / 8mm holes
AC Outputs (115VAC models)	Rear - terminal block Front - dual NEMA 5-15P
AC Outputs (230VAC models)	Rear - terminal block Front - none (see Ordering Information)
Transfer Switch Connector	Rear terminal block
Remote Alarm Connectors	Terminal Block (#16 to #24 AWG)

Protection Features

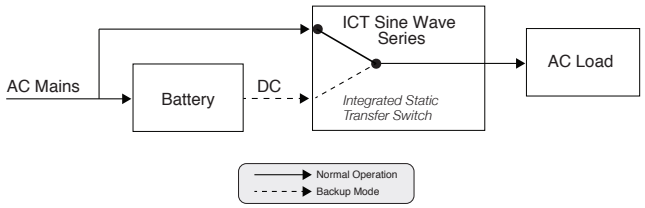
Over-temperature, overload, resettable 15 Amp AC circuit breaker (7 Amp on 230VAC models)

Communications

All models include Form C contacts and factory installed RJ45 Ethernet port with built-in web server and intuitive graphical user interface. Allows remote monitoring of inverter conditions including battery voltage, output voltage, output power and alarm conditions. Remote management features include turning AC outputs off and on, configuring user, network, email and alert settings, and setting up the network watchdog feature for auto restarting if I.P. connectivity is interrupted. SNMPv1/2c is supported for integration with network management systems.

Static Transfer Switch

Factory installed transfer relay automatically switches between the inverter output and an AC power source such as the grid or generator, allowing the ICT Sine Wave Series inverter to function as an off-line UPS.Transfer time is less than 1 cycle. User adjustable voltage trip level.



Ordering Information

	Output V	AC Connector	48VDC Input	24VDC Input	12VDC Input
Inverter with factory-installed static transfer switch and TCP/IP Ethernet	115VAC	Dual front NEMA 5-15P & rear terminal block	ICT1500-48SWTC	ICT1500-24SWTC	ICT1500-12SWTC
	230VAC	Rear terminal block only	ICT1500A-48SWTC	ICT1500A-24SWTC	ICT1500A-12SWTC
19" 2RU Rack Mount Tray, holds one or two Sine Wave Series inverters	ICT-RM2U				
DC Wiring Junction Box with 5 knockout positions	ICT-DCWB				

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