

**SPECIFICATIONS**

		Available Configurations						Input Voltage Range	Output Voltage	Output Current (Cont.)	Output Current (Peak)	Current Limiting	Line Regulation	Load Regulation	Output Ripple (Max)	Efficiency (Typical)
		A	AG	AX	AM	AR	ARM									
10 - 100 watts	ICT12012-4	●						90-130 VAC	13.8 VDC +/- 300mV	3.0 Amps	4.0 Amps	4.5 Amps	0.50%	2.00%	20 mV RMS	75%
	ICT12012-6	●						90-130 VAC	13.8 VDC +/- 300mV	4.5 Amps	6.0 Amps	6.5 Amps	0.50%	2.00%	20 mV RMS	75%
	ICT22012-4	●						105-250 VAC	13.8 VDC +/- 300mV	3.0 Amps	4.0 Amps	4.5 Amps	0.50%	2.00%	25 mV RMS	75%
	ICT22012-6	●						105-250 VAC	13.8 VDC +/- 300mV	4.5 Amps	6.0 Amps	6.5 Amps	0.50%	2.00%	25 mV RMS	75%
	ICT22024-3	●						105-250 VAC	27.6 VDC +/- 400mV	2.5 Amps	3.0 Amps	4.0 Amps	1.00%	2.00%	35 mV RMS	75%
100 - 200 watts	ICT12012-8 <sup>(1)(2)</sup>	●		●	●	●	●	90-130 VAC	13.8 VDC +/- 150 mV	6.5 Amps	8.0 Amps	8.5 Amps	0.20%	0.50%	20 mV RMS	85%
	ICT12012-10 <sup>(1)(2)</sup>	●	●	●	●	●	●	90-130 VAC	13.8 VDC +/- 150 mV	7.5 Amps	10.0 Amps	10.5 Amps	0.20%	0.75%	20 mV RMS	85%
	ICT12012-11 <sup>(1)(2)</sup>	●	●	●	●	●	●	90-130 VAC	13.8 VDC +/- 150 mV	9.0 Amps	11.0 Amps	11.5 Amps	0.20%	0.50%	20 mV RMS	85%
	ICT12012-12 <sup>(1)(2)</sup>	●	●	●	●	●	●	90-130 VAC	13.8 VDC +/- 150 mV	10.0 Amps	12.0 Amps	12.5 Amps	0.20%	0.80%	20 mV RMS	85%
	ICT12024-5 <sup>(1)</sup>	●			●	●	●	90-130 VAC	27.6 VDC +/- 150 mV	4.0 Amps	5.0 Amps	5.5 Amps	0.20%	0.75%	20 mV RMS	85%
	ICT12048-3	●			●	●	●	90-130 VAC	48.0 VDC +/- 150 mV	2.5 Amps	3.0 Amps	3.5 Amps	0.50%	1.00%	20 mV RMS	85%
	ICT22012-8 <sup>(3)</sup>	●		●	●	●	●	105-130/180-265 VAC	13.8 VDC +/- 150 mV	6.5 Amps	8.0 Amps	8.5 Amps	0.20%	0.50%	35 mV RMS	80%
	ICT22012-10 <sup>(3)</sup>	●	●	●	●	●	●	105-130/180-265 VAC	13.8 VDC +/- 150 mV	7.5 Amps	10.0 Amps	10.5 Amps	0.20%	0.75%	20 mV RMS	85%
	ICT22012-11 <sup>(3)</sup>	●	●	●	●	●	●	105-130/180-265 VAC	13.8 VDC +/- 150 mV	9.0 Amps	11.0 Amps	11.5 Amps	0.20%	0.50%	20 mV RMS	85%
	ICT22012-12 <sup>(3)</sup>	●	●	●	●	●	●	105-130/180-265 VAC	13.8 VDC +/- 150 mV	10.0 Amps	12.0 Amps	12.5 Amps	0.20%	0.80%	20 mV RMS	85%
	ICT22024-5	●			●	●	●	180-265 VAC	27.6 VDC +/- 150 mV	4.0 Amps	5.0 Amps	5.5 Amps	0.20%	0.50%	20 mV RMS	85%
	ICT22048-3	●			●	●	●	180-265 VAC	48.0 VDC +/- 150 mV	2.5 Amps	3.0 Amps	3.5 Amps	0.50%	1.00%	35 mV RMS	80%
200 - 500 watts	ICT12012-15 <sup>(1)(2)</sup>	●	●	●	●	●	●	90-130 VAC	13.8 VDC +/- 150 mV	13.0 Amps	15.0 Amps	15.5 Amps	0.20%	0.80%	20 mV RMS	85%
	ICT12012-20 <sup>(1)(2)</sup>	●	●	●	●	●	●	90-130 VAC	13.8 VDC +/- 150 mV	17.0 Amps	20.0 Amps	20.5 Amps	0.20%	0.85%	20 mV RMS	85%
	ICT12012-30 <sup>(1)(2)</sup>	●	●	●	●	●	●	90-130 VAC	13.8 VDC +/- 150 mV	25.0 Amps	30.0 Amps	31.0 Amps	0.20%	0.85%	20 mV RMS	85%
	ICT12024-10 <sup>(1)(2)</sup>	●			●	●	●	90-130 VAC	27.6 VDC +/- 150 mV	8.0 Amps	10.0 Amps	10.5 Amps	0.20%	0.75%	20 mV RMS	85%
	ICT12024-15 <sup>(1)(2)</sup>	●			●	●	●	90-130 VAC	27.6 VDC +/- 150 mV	13.0 Amps	15.0 Amps	15.5 Amps	0.20%	0.75%	20 mV RMS	85%
	ICT12048-5	●			●	●	●	90-130 VAC	48.0 VDC +/- 150 mV	4.0 Amps	5.0 Amps	5.5 Amps	0.50%	1.00%	40 mV RMS	80%
	ICT22012-15 <sup>(1)(3)</sup>	●	●	●	●	●	●	90-130/180-265 VAC	13.8 VDC +/- 150 mV	13.0 Amps	15.0 Amps	15.5 Amps	0.20%	0.80%	20 mV RMS	85%
	ICT22012-20 <sup>(1)(3)</sup>	●	●	●	●	●	●	90-130/180-265 VAC	13.8 VDC +/- 150 mV	17.0 Amps	20.0 Amps	20.5 Amps	0.20%	0.85%	20 mV RMS	85%
	ICT22012-30 <sup>(1)(3)</sup>	●	●	●	●	●	●	90-130/180-265 VAC	13.8 VDC +/- 150 mV	25.0 Amps	30.0 Amps	31.0 Amps	0.20%	0.85%	25 mV RMS	85%
	ICT22024-10 <sup>(3)</sup>	●			●	●	●	90-130/180-265 VAC	27.6 VDC +/- 150 mV	8.0 Amps	10.0 Amps	10.5 Amps	0.20%	0.75%	20 mV RMS	85%
	ICT22024-15 <sup>(3)</sup>	●			●	●	●	90-130/180-265 VAC	27.6 VDC +/- 150 mV	13.0 Amps	15.0 Amps	15.5 Amps	0.20%	0.75%	20 mV RMS	85%
ICT22048-5 <sup>(3)</sup>	●			●	●	●	90-130/180-265 VAC	48.0 VDC +/- 150 mV	4.0 Amps	5.0 Amps	5.5 Amps	0.50%	1.00%	40 mV RMS	80%	

A - Standard 7.1" Width    AM - with LCD Meter  
 AG - 6.4" Width            AR - mounted on 19" Rackmount  
 AX - 5.6" Width            ARM - with LCD Meter and Rackmount

<sup>(1)</sup> CSA C22.2 No 107.1, UL 1012 Approved

<sup>(2)</sup> FCC class B Compliant

<sup>(3)</sup> Switchable between 120 & 220 VAC Input - Internal Jumper



**ICT COMM SERIES**  
INSTRUCTION MANUAL



**INNOVATIVE CIRCUIT TECHNOLOGY LTD.**

855-040-004

## ICT COMM SERIES

The ICT Comm Series switching power supplies deliver continuous trouble-free operation and incorporate extra filtering, providing a virtually noise-free environment for a wide range of communications equipment and 12V accessories.

These instructions should be read before using the product and it should be saved for future reference.

## SETUP

- ▶ Plug the enclosed power cord into the input plug on the back of the unit. Plug the other end into the AC outlet.
- ▶ Connect equipment to terminal block at the rear of the unit.  
Note: Keep the hook-up leads to the load as short as possible to avoid excess radiated noise.
- ▶ To turn on power supply, press top of front panel switch.

## WARNING

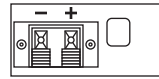
- ▶ Do not block side or bottom vent slots.
- ▶ Do not place unit on or near sources of heat/moisture.
- ▶ Incorrect wiring may result in serious damage to both power supply and equipment wired to power supply.
- ▶ Unit service should be done by ICT.

## NOTES

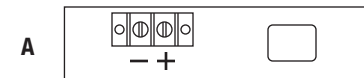
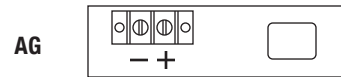
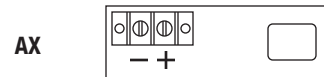
- ▶ The ICT Comm Series can be used in parallel or series configurations. Please contact ICT for further information.
- ▶ Most ICT Comm series products are available in various widths (A = 7.11", AG = 6.4", AX = 5.6") and can be assembled with a wide variety of ICT base station covers. 120/220 Volt or 220 Volt input models are available, as well as 12, 24, and 48 V output models. Options available also include an LCD meter for current and voltage display, and a 19" rackmount configuration. Wallmount brackets are available for permanent installation. (part #ICT-WMB)
- ▶ The ICT Comm Series can also be used to charge a battery while powering an accessory without any modification. Please contact ICT for design note (DN-101 Battery backup).
- ▶ The ICT Charger Series is also available, which offer a complete microprocessor controlled battery backup system. They feature fast and efficient 3 stage battery charging, as well as full protection for both the battery and the charger.

## CONNECTIONS

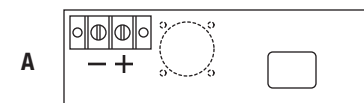
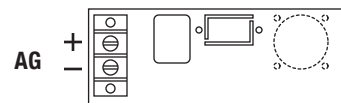
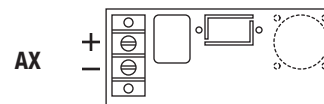
### 10 - 100 watts



### 100 - 200 watts



### 200 - 500 watts



## LIMITED WARRANTY

ICT Ltd. warrants to the original consumer purchaser that this product shall be in good working order, free from defects in materials and workmanship, for a period of one (1) year from the date of purchase. Should failure occur during the above stated time period, then ICT will, at its option, repair or replace this product at no additional charge except as set forth below. All parts, whether for repair or replacement, will be furnished on an exchange basis. All exchange pieces become the property of ICT. This limited warranty shall not apply if the ICT product has been damaged by unreasonable use, accident, negligence, disaster, service, or modification by anyone other than the ICT factory.

Limited warranty service is obtained by delivering the product during the above stated one (1) year warranty period to an authorized ICT dealer or ICT factory and providing proof of purchase date. If this product is delivered by mail, you will insure the product or assume risk of loss or damage in transit, and prepay shipping charges to the factory.

Every reasonable effort has been made to ensure that ICT product manuals and promotional materials accurately describe ICT product specifications and capabilities at the time of publication. However, because of ongoing improvements and updating of ICT products, ICT cannot guarantee the accuracy of printed materials after the date of publication and disclaims liability for changes, errors or omissions.

If this ICT product is not in good working order, as outlined in the above warranty, your sole remedy shall be repair or replacement as provided above. In no event will ICT be liable for any damages resulting from the use of or the inability to use the ICT product, even if an ICT employee or an authorized ICT dealer has been advised of the possibility of such damages, or for any claim by any other party.

ICT reserves the right to make changes without further notice to any products or documentation for improvement of reliability, function, or design.

ICT Ltd. does not recommend use of its products in life support applications wherein a failure or malfunction of the product may directly or indirectly threaten life or cause injury. The user of ICT products, which are to be used in life support applications as described above, assumes all risks of such use and indemnifies ICT against all damages.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following 2 conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including any interference that may cause undesired operation.

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