

SPECIFICATIONS

		Input Voltage Range	Output Voltage	Output Current (Cont.)	Output Current (Peak)	Current Limiting	Line Regulation	Load Regulation	Output Ripple (Max)	Over-voltage Protection	Efficiency (Typical)	Fuse
30 - 70 watts	ICT125-5A	10-15 VAC	5.0 VDC +/- 50 mV	5.0 Amps	5.0 Amps	5.3 Amps +/- 5%	1.00%	1.00%	35 mV RMS	6.0 V	80%	5 Amp
	ICT128-5A	11-16 VDC	8.0 VDC +/- 100 mV	4.5 Amps	5.0 Amps	25.5 Amps +/- 5%	1.00%	1.00%	20 mV RMS	16.0 V	87%	10 Amp
	ICT245-5A	20-30 VDC	5.0 VDC +/- 50 mV	5.0 Amps	5.0 Amps	5.3 Amps +/- 5%	1.00%	1.00%	35 mV RMS	6.0 V	80%	5 Amp
	ICT2412-2.5A (1)	20-30 VDC	13.8 VDC +/- 300 mV	2.25 Amps	2.5 Amps	2.6 Amps +/- 5%	0.60%	0.15%	20 mV RMS	--	88%	3 Amp
	ICT2412-5A (1)	20-30 VDC	13.8 VDC +/- 300 mV	4.5 Amps	5.0 Amps	5.25 Amps +/- 5%	0.20%	0.85%	20 mV RMS	--	88%	5 Amp
100 - 300 watts	ICT125-10A	10.5-15 VDC	5.0 VDC +/- 50 mV	10.0 Amps	10.0 Amps	10.5 Amps +/- 5%	1.00%	1.00%	30 mV RMS	6.0 V	80%	10 Amp
	ICT245-10A	20-30 VDC	5.0 VDC +/- 50 mV	10.0 Amps	10.0 Amps	10.5 Amps +/- 5%	1.00%	1.00%	30 mV RMS	6.0 V	80%	10 Amp
	ICT2412-10A (1)	20-30 VDC	13.8 VDC +/- 300 mV	9.0 Amps	10.0 Amps	10.5 Amps +/- 5%	0.50%	0.40%	40 mV RMS	16.0 VDC	80%	10 Amp
	ICT2412-15A (1)	20-30 VDC	13.8 VDC +/- 300 mV	13.5 Amps	15.0 Amps	16.0 Amps +/- 5%	0.45%	0.30%	40 mV RMS	16.0 VDC	88%	15 Amp
	ICT2412-20A (1)	20-30 VDC	13.8 VDC +/- 300 mV	18.0 Amps	20.0 Amps	21.0 Amps +/- 5%	0.45%	0.30%	40 mV RMS	16.0 VDC	88%	20 Amp
300+ watts	ICT2412-30A (1)	20-30 VDC	13.8 VDC +/- 300 mV	25.0 Amps	30.0 Amps	31.0 Amps +/- 5%	0.45%	0.30%	40 mV RMS	16.0 VDC	95%	30 Amp
	ICT2412-40A (1)	20-30 VDC	13.8 VDC +/- 300 mV	36.0 Amps	40.0 Amps	42.0 Amps +/- 5%	0.45%	0.30%	40 mV RMS	16.0 VDC	95%	20 Amp
Wide Range	ICT2012-10A	10.5-30 VDC	13.8 VDC +/- 300 mV	7.0 Amps	10.0 Amps	10.5 Amps +/- 5%	1.80 %	0.80%	20 mV RMS	--	85%	35 Amp
	ICT2024-5A	10-30 VDC	27.6 VDC +/- 300 mV	4.0 Amps	5.0 Amps	5.5 Amps +/- 5%	0.50%	0.80%	40 mV RMS	--	85%	35 Amp
	ICT4812-10A (1)(2)	20-65 VDC	13.8 VDC +/- 200 mV	9.0 Amps	10.0 Amps	10.5 Amps +/- 5%	0.70%	0.60%	20 mV RMS	16.0 VDC	85%	10 Amp
	ICT4812-20A (1)(2)	20-65 VDC	13.8 VDC +/- 200 mV	17.0 Amps	20.0 Amps	20.5 Amps +/- 5%	0.70%	0.70%	25 mV RMS	16.0 VDC	85%	20 Amp

NOTE: these converters can be mounted on a standard 19" Rackmount. Please contact us for more information.

(1) CSA C22.2 No 107.1, UL 1012 Approved

(2) CSA C22.2 No 123, UL 1604 Approved



ICT INDUSTRIAL SERIES (NON-ISOLATED) INSTRUCTION MANUAL



INNOVATIVE CIRCUIT TECHNOLOGY LTD.

855-002-003

ICT INDUSTRIAL SERIES

The ICT Industrial Series converters are non-isolated DC to DC converters designed for use on negative ground systems. Each converter is designed for high efficiency and long service life. The rugged case and modular design have proven durable in harsh environments. Extra silicone is used for vibration and moisture resistance. Standard features include: current limiting, overvoltage protection, fuse protection, high surge capacity, easy access mounting holes, and a terminal block connector.

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

SETUP

- ▶ Mount converter securely.
- ▶ Do not apply power until unit is completely wired.
- ▶ For best results, wire converter directly to battery using heavy gauge wire.
- ▶ NOTE: Do not wire output directly to a power source. Paralleling outputs are not recommended. Please contact technical support for application assistance.

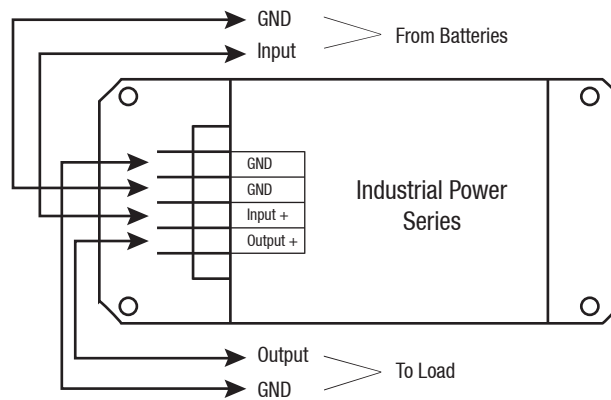
WARNING

- ▶ Do not place unit on or near sources of heat/moisture.
- ▶ Incorrect wiring may result in serious damage to both the converter and equipment wired to the converter.
- ▶ Unit service should be done at ICT factory.

TROUBLESHOOTING

- ▶ Check fuse inside unit, if blown, replace with correct fuse.
- ▶ Check for proper voltage at input while converter is under load.
- ▶ Check for erratic voltage conditions at input, which might cause overvoltage circuit to trigger.

CONNECTIONS



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.



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