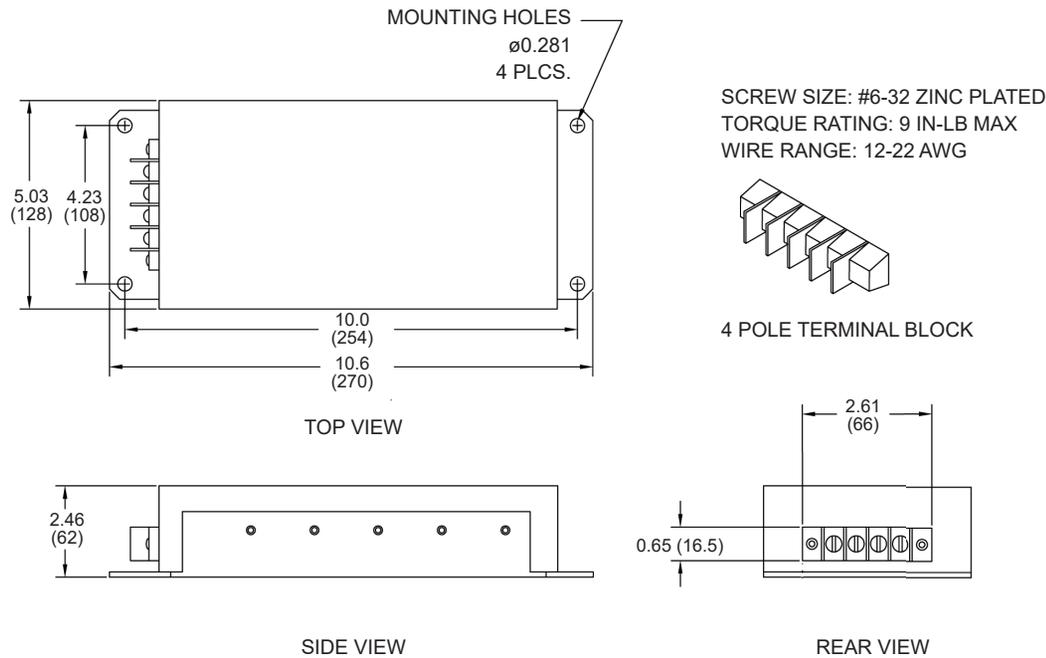


SPECIFICATIONS

	Input Voltage Range	Output Voltage	Output Current (Cont.)	Output Current (Peak)	Current Limiting	Line Regulation	Load Regulation	Output Ripple (Max)	Efficiency (Typical)	Warranty
ICT50100-20AIW	50-100 VDC	13.8 VDC +/- 150 mV	17.0 Amps	20.0 Amps	20.5 Amps	0.50%	0.75%	40 mV RMS	85%	2 Years

OUTLINE DRAWING

DIMENSIONS IN
INCHES (MILLIMETRES)



ICT ISOLATED CONVERTERS

INSTRUCTION MANUAL



ICT ISOLATED CONVERTERS

The ICT Isolated Series converters have been designed to operate from a negative or positive ground electrical system, providing complete isolation between primary and secondary circuits, as well as isolation from the chassis. Standard voltage ranges include: 12VDC–12VDC, 12VDC–24VDC, 12VDC–48VDC, and wide range inputs of 20–60VDC–12VDC or 50–100VDC–12VDC. Extra input filtering and spike detection are standard and essential for all applications including site, heavy-duty industrial and off-road equipment.

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.

WARNING

- ▶ 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.

NOTES

- ▶ The Isolated converters can be used in parallel or series configurations. Please contact ICT for further information
- ▶ These converters incorporate a special noise filter design. For proper filter operation, the converter must be chassis grounded
- ▶ Continuous current ratings are for 25¼C ambient temperatures. At higher ambients, derate by 2% per degree C above 25¼C
- ▶ Wall mount (AIW) and 19" Rack mount (AIR) models are available

LIMITED WARRANTY

ICT Limited Warranty is only intended for the benefit of the original Purchaser of this product. This Warranty is not transferable or assignable without the prior written permission of ICT. ICT's sole obligation and liability under this warranty is limited to either repairing or replacing defective products at the sole discretion of ICT. When repairing or replacing the products, ICT may use products or parts that are new, equivalent to new or re-conditioned. Parts repaired or replaced during the warranty period will be under warranty for the remainder of the warranty period.

The warranty period on ICT products purchased new from ICT is two years. The warranty period for a repaired product or part thereof is ninety (90) days or the remainder of the unexpired term of the new product warranty period, whichever is greater. Repair or replacement of a defective product or part does not extend the original warranty coverage period.

No claim will be accepted unless written notice of the claim is received by ICT in accordance with ICT's Return Material Authorization (RMA) procedure, as soon as reasonably possible after the defect is discovered. A valid product serial number must be provided with the RMA claim to prove eligibility. The RMA form is available on the ICT website at www.ict-power.com/support/warranty-repair/.

The Purchaser shall at their own risk and cost return the defective product to ICT's factory or designated repair center once an RMA is issued by ICT. Return of the products to the customer after repair is completed shall be prepaid by ICT unless otherwise mutually agreed between the parties. Products shipped to ICT which have incurred freight damage will not be covered by this Warranty and any repairs or replacement parts, components or products needed will be invoiced in the full current price amount and returned freight collect to Purchaser. It is the Purchaser's responsibility to check the product upon receipt for any damage during shipping and to contact the carrier or shipper regarding such damage. Product that is returned as defective, which is determined to operate within published specifications will be returned to the Purchaser freight collect.

This Warranty will be void if the product has been subjected to misuse, neglect, accident, exposure to environmental conditions not conforming to the products' limits of operation, improper installation or maintenance, improper use of an electrical source, defects caused by sharp items or by impact pressure, a force majeure event, has been modified or repaired by anyone other than ICT or its authorized representative, has been subjected to unreasonable physical, thermal or electrical stress, improper maintenance, or causes external to the unit including but not limited to general environmental conditions such as rust, corrosive atmospheres, sustained temperatures outside the specified operating range of the equipment, exposure to power surges and/or electrical surges, improper grounding, mould or dust, animal or insect damage, water damage or immersion in liquid of any kind.

ICT does not control the installation and use of any ICT product. Accordingly, it is understood this does not constitute a warranty of performance or a warranty of fitness for a particular purpose.



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