

ISOLATED SERIES 2

Fully Isolated DC-DC Power Converters

ICT Isolated Series 2 DC-DC converters provide fully isolated high conversion efficiency, an on/off control contact to help save energy and prolong battery life, and a 2-year warranty. The Isolated Series 2 provides the benefits of full isolation at non-isolated converter price levels.

Isolated Series 2 converters can operate from a negative or positive ground electrical system, and are ideal for applications where complete isolation is necessary between primary and secondary circuits, as well as from the chassis.

Whether for a vehicle, communications tower site or off-grid power system, Isolated Series 2 converters come with the added assurance of years of proven ICT reliability and performance.

Performance and Flexibility

Models are available from 120 watts to 420 watts, in step up and step down models to match your needs. Input voltages range from 10 to 60VDC, with outputs in 12, 24 and 48VDC to cover virtually every application requirement.

Up to three Isolated Series 2 converters can be mounted in a standard 19 inch equipment rack using the ICT-RM2U rack mount accessory kit.

Low Cost of Ownership

All models come with a 2-year warranty. Minimum internal wiring and conformal coating of the electronics protects these converters from life shortening vibration and moisture.

Reliability

Reliability is achieved through careful design that virtually eliminates internal wiring and connections that can fail. Wide input voltage ranges are less susceptible to voltage spikes and drops. Every unit is extensively tested before it leaves the factory.

Energy Saving Design

A high-efficiency design means less energy is lost in the conversion process. A contact terminal is provided that allows the converter to be turned off and on by the main circuit, saving energy and avoiding standby drain on the battery.



MODEL SELECTOR GUIDE

Input Voltage	Output Voltage	Output Current	Model Number
12VDC	12VDC	12 Amps	ICT1212-12AI2
		35 Amps	ICT1212-35AI2
	24VDC	10 Amps	ICT1224-10AI2
		20 Amps	ICT1224-20AI2
	48VDC	5 Amps	ICT103048-5AI2
24VDC	12VDC	12 Amps	ICT206012-12AI2
		20 Amps	ICT206012-20AI2
		35 Amps	ICT206012-35AI2
	24VDC	10 Amps	ICT206024-10AI2
		20 Amps	ICT206024-20AI2
	48VDC	5 Amps	ICT103048-5AI2
48VDC	12VDC	12 Amps	ICT206012-12AI2
		20 Amps	ICT206012-20AI2
		35 Amps	ICT206012-35AI2
48VDC	24VDC	10 Amps	ICT206024-10AI2
		20 Amps	ICT206024-20AI2
19" Rack Mount Tray, holds 1, 2 or 3 converters			ICT-RM2U



TECHNICAL SPECIFICATIONS

Model Number	Input Voltage Range	Output Voltage	Output Current (Cont.)	Output Current (Peak)	Output Ripple (Max)	Cooling	Line Regulation	Load Regulation	Efficiency (Typical)	Operating Temperature Range ⁽¹⁾
ICT1212-12AI2	11-18 VDC	13.8 VDC +/- 150 mV	10.0 Amps	12.0 Amps	20mV RMS	Convection				
ICT1212-35AI2	11-18 VDC	13.8 VDC +/- 150 mV	32.0 Amps	35.0 Amps	20mV RMS	Fan				
ICT1224-10AI2	11-18 VDC	27.6 VDC +/- 300 mV	8.0 Amps	10.0 Amps	30mV RMS	Convection				
ICT1224-20AI2	11-18 VDC	27.6 VDC +/- 300 mV	17.0 Amps	20.0 Amps	30mV RMS	Fan				
ICT103048-5AI2	11-30 VDC	48.0 VDC +/- 300 mV	4.0 Amps	5.0 Amps	30mV RMS	Convection				
ICT206012-12AI2	20-60 VDC	13.8 VDC +/- 150 mV	10.0 Amps	12.0 Amps	20mV RMS	Convection				
ICT206012-20AI2	20-60 VDC	13.8 VDC +/- 150 mV	17.0 Amps	20.0 Amps	20mV RMS	Convection				
ICT206024-10AI2	20-60 VDC	27.6 VDC +/- 300 mV	8.0 Amps	10.0 Amps	30mV RMS	Convection				
ICT206024-20AI2	20-60 VDC	27.6 VDC +/- 300 mV	16.0 Amps	20.0 Amps	30mV RMS	Fan				
ICT206012-35AI2	20-60 VDC	13.8 VDC +/- 150 mV	32.0 Amps	35.0 Amps	20mV RMS	Fan				
All Models							0.5%	0.5%	88-90%	-30 to +60C

(1) Derate 1%/°C > 40 C

Dimensions (inches)

ICT1212-12AI2 ICT206012-12AI2
 ICT1224-10AI2 ICT206012-20AI2
 ICT103048-5AI2 ICT206024-10AI2

ICT1212-35AI2 ICT206024-20AI2
 ICT1224-20AI2 ICT206012-35AI2

