

DFC SERIES

AC/DC Power Supplies 2% FUW Aci bh * - \$r %800 watts



Fig 1: The above is an illustration of the PRO600 or PRO1200 power supply battery charger Coupled together with one of our Distribution Panels.....offering a total solution.



Description

The Pro Series line of DC power supplies is a high performance, cost effective, high efficiency 1RU DC power supply designed for a variety of mission-critical applications. The core of the Pro Series is derived from the state-of-the-art ICT Digital Series power supply design that delivers high efficiency, power factor corrected AC input, space-saving 1RU chassis, FCC Class B low noise rating, and an optional battery backup terminal with integrated low voltage disconnect.

ICT Pro Series DC power supplies are available in two power levels, providing 690 or 1200 watts of power with 12, 24 or 48VDC output. They provide an ideal DC power solution for wireless communications professionals who demand cost effective, high efficiency space-saving DC power systems for LMR, broadband, and network communications equipment including radios, repeaters, trunking systems, paging systems, RF amplifiers, microwave, WiMax, routers, bridges, multiplexers, and VOIP. The Pro Series is also ideal for industrial power applications such as security systems, transportation, process control, and DC in-building

Features

- ▶ 690 or 1200 watts of output power in a 1RU rack mount chassis
- ▶ 90 to 93% efficiency over a broad power range
- ▶ Wide-ranging power factor corrected AC input saves energy
- ▶ Form C alarm and remote shutdown contacts
- ▶ Optional battery backup with integrated low voltage disconnect for charging and protecting batteries

The ICT Pro Series is designed, manufactured and supported by ICT to provide the most reliable, cost effective, high efficiency 1RU DC power supply available today for wireless communications, broadband, small cell and other demanding DC power applications.

High Reliability

- ▶ Developed and manufactured in North America by ICT
- ▶ Designed around the highest quality components available
- ▶ Every system is fully tested and burned-in at the factory
- ▶ Output bus bars allow safe and solid DC connections
- ▶ Designed to IEC60950-1, FCC Class B, CE EMC Directive

Performance & Flexibility

- ▶ 690 or 1200 watts of output power for demanding applications
- ▶ 90 to 93% efficiency at 230VAC input
- ▶ Power factor corrected AC input voltage range of 100-265VAC
- ▶ -30C to +60C operating temperature range
- ▶ Form C alarm contacts
- ▶ Remote shutdown signal contact
- ▶ Available battery backup option with integrated LVD
- ▶ Can operate as a DC power supply for running loads or for dedicated battery charging

Part Of An Innovative Solutions Approach

Pro Series power supplies are part of the next generation of 1RU high-efficiency power supplies from ICT designed with today's DC power needs in mind.

Combine the Pro Series with the ICT Distribution Series 2 or Series 3 to create a cost-effective TCP/IP managed solution that will monitor load conditions, AC faults, site monitoring sensors like door and smoke alarms, and send email alerts over your Ethernet network.



: Coupled together with our Distribution Panels.

DFC SERIES

AC/DC Power Supplies 2% Full Load Regulation - 600 watts

Power Specifications

Continuous Output Current - 12V	87A, 50A
Continuous Output Current - 24V	44A, 25A
Continuous Output Current - 48V	22A, 12.5A
Efficiency (typical) - 12V	90% @ 240VAC
Efficiency (typical) - 24V	91% @ 240VAC
Efficiency (typical) - 48V	93% @ 240VAC
Output Voltage - 12V	13.8VDC
Output Voltage - 24V	27.6VDC
Output Voltage - 48V	55.2VDC

(Output voltage factory adjustable by specifying at time of order)

Input Voltage Range	100-265VAC
Frequency Range	50/60Hz
Power Factor (typical)	0.99
Output Ripple - 12V	30mV RMS
Output Ripple - 24V	30mV RMS
Output Ripple - 48V	40mV RMS
Line Regulation	+/- 0.1%
Load Regulation	+/- 0.5%
Output Grounding	Positive, negative or floating

Environment

Operating Temperature Range	-30°C to +60°C (derate 2%/°C >50°C)
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Variable Speed Temperature Controlled Fans

Mechanical

Form Factor	1RU - 19 inch Rack Mount
Dimensions (L x W x H)	163 x 483 x 44 mm
Weight	3.36 kg
AC Input Connectors	IEC C14 Connector
DC Output Connectors	Busbars with 5/16" Nuts & Washers
Remote Alarm Connectors	Terminal Block (#22 to #26 AWG)
AC Input Cord	Australian AS/NZS AU1-10P Plug and straight IEC 60320 connector

Standards

Designed to IEC60950-1, FCC Class B, CE EMC Directive

Protection Features

Over-Temperature, DC Over-Current, AC Input Voltage, DC Output Voltage, System Fault

Warranty

Three Years

Remote Communications

Form C Alarm Contacts - Normally Open, Normally Closed, Common

Remote Shutdown - 2.5 to 16 Volt Signal

Options

Battery Backup Factory-installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage disconnect with factory-set disconnect and reconnect voltage setpoints.

	12V	24V	48V
LVD Disconnect Voltage	11.5V	23.0V	46.0V
LVD Reconnect Voltage	12.5V	25.0V	50.0V

Ordering Information - All models are Configured To Order (CTO) at the factory. Options must be selected at time of ordering.

Selection Table

	Power	12VDC Output	24VDC Output	48VDC Output
Pro Series Power Supply	690W	ICT690A-12S	ICT690A-24S	ICT690A-48S
	1200W	ICT1190A-12S	ICT1190A-24S	ICT1190A-48S
Power supply with factory-installed battery backup terminal, automatic revert and integrated low voltage disconnect.	690W	ICT690A-12SB	ICT690A-24SB	ICT690A-48SB
	1200W	ICT1190A-12SB	ICT1190A-24SB	ICT1190A-48SB

To find out more about the Pro Series and other DC Site Power solutions from ICT including TCP/IP Ethernet remote managed solutions, Contact our office.