



# PRO SERIES

## 1RU High Efficiency DC Power Supply



Standard DC Power Supply with High Performance and Reliability with Battery Backup and Low Voltage Disconnect for Cost Effective Site Power

### Features

- ▶ 690 or 1200 watts of output power
- ▶ 12, 24 or 48 volts DC floating output
- ▶ 100-265VAC input with power factor correction
- ▶ 90 to 93% efficiency
- ▶ -30 C to +60 C operating temperature range
- ▶ Battery Backup and Low Voltage Disconnect with selectable battery charge current
- ▶ Form C alarm contacts
- ▶ Remote shutdown signal contact
- ▶ Designed to meet UL/CSA60950-1
- ▶ Meets FCC Part 15 Class B limits
- ▶ Fast and easy to install and use

### 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 Pro Series delivers high efficiency, power factor corrected AC input, space-saving 1RU chassis, FCC Class B low noise rating, with battery backup terminal and 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 floating 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, and VOIP. The Pro Series is also ideal for industrial power applications such as security systems, transportation, process control, and DC in-building power.



### Applications

- Wireless two-way communications networks
- Trunked radio systems
- Microwave Backhaul
- Broadband
- DAS
- Security and surveillance
- Industrial DC power

**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
<i>(Output voltage factory adjustable by specifying at time of order)</i>	
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	Floating

**Environment**

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

**Standards**

ROHS
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**Ordering Information**

	POWER	12VDC OUTPUT	24VDC OUTPUT	48VDC OUTPUT
Pro Series power supply with factory-installed battery backup terminal, automatic revert and integrated low voltage disconnect.	690W	ICT690-12SB	ICT690-24SB	ICT690-48SB
	1200W	ICT1190-12SB	ICT1190-24SB	ICT1190-48SB

**Mechanical**

Form Factor	1RU - 19 inch Rack Mount
Dimensions (L x W x H)	8.5 x 19.0 x 1.7 inches 217 x 483 x 44 mm
Weight	7.4 lbs / 3.36 kg
AC Input Connectors	IEC C14 Connector
DC Output Connectors	Busbars with 5/16" mounting holes
Remote Alarm Connectors	Terminal Block (#14 to #30 AWG)

**Protection Features**

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

Form C Alarm Contacts - Normally Open, Normally Closed, Common
Remote Shutdown - 2.5 to 16 Volt Signal

**Battery Backup / LVD**

Factory-installed third terminal output for float charging batteries. Provides automatic revert function. Includes low voltage disconnect with factory default 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

Adjustable battery charge current using rear mounted DIP switches:  
25% / 50% / 75% / 100% (factory default)

**Warranty**

Two Years
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To find out more about the Pro Series and other DC Site Power solutions from ICT including TCP/IP Ethernet remotely managed DC power solutions, visit [www.ict-power.com](http://www.ict-power.com).

