PRO SERIES

1RU High Efficiency DC Power Supply

Standard DC Power Supply with High Performance and Reliability With Available Battery Backup and Low Voltage Disconnect for Cost Effective Base Station 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 option available 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 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 floating output for use with positive or negative grounds. 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 power.

Applications

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

HELIOS POWER SOLUTIONS

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Specifications subject to change.

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	Floating

Environment

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

Standards

Designed to UL/CSA 60950, FCC Class B, CE EMC Directive

Mechanical

Form Factor	1RU - 19 inch Rack Mount
Dimensions (L x W x H)	6.4 x 19.0 x 1.72 inches 163 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 (#22 to #26 AWG)
AC Input Cord	Australian AS/NZS AU1-10P Plug and straight IEC 60320 connector

Protection Features

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

Remote Communications

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

Remote Shutdown - 2.5 to 16 Volt Signal

Warranty

Two Years

Options

Battery Backup

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)

Ordering Information

	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 remotely managed DC power solutions, visit www.ict-power.com.

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