

# PRO SERIES

AC/DC Power Supplies / DC UPS 690W 1200W



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 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.

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

- ▶ 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

## High Reliability

- ▶ 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 UL/CSA 60950, 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 designed with today's DC power needs in mind.



# PRO SERIES

AC/DC Power Supplies / DC UPS 690W 1200W



## 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)
-----------------------------	--

Variable Speed Temperature Controlled Fans

## 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" Nuts & Washers
Remote Alarm Connectors	Terminal Block (#22 to #26 AWG)

## Standards

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

## 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

## 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.

DESCRIPTION		12VDC Output	24VDC Output	48VDC Output
Pro Series Power Supply	690W	PRO690-12PS	PRO690-24PS	PRO690-48PS
	1200W	PRO1200-12PS	PRO1200-24PS	PRO1200-48PS
Power supply with factory-installed battery backup terminal, automatic revert and integrated low voltage disconnect.	690W	PRO690-12BC	PRO690-24BC	PRO690-48BC
	1200W	PRO1200-12BC	PRO1200-24BC	PRO1200-48BC