



HIGH POWER SERIES

DC Power Supplies from 480 to 1440 Watts in 12, 24 and 48VDC Output

ICT HIGH POWER SERIES DC power supplies are designed to provide clean, reliable high current DC power with extremely low output voltage ripple for powering sensitive communications equipment. With a full load efficiency of 89%, this quiet, switchmode design has power factor corrected universal AC input from 100 to 265 VAC. All models come with a rear mounted connector to provide remote shutdown, AC status monitoring, and intelligent load sharing functionality. The High Power Series comes standard in a desktop package or optional factory installed 19 inch 2RU rack mountable tray. A battery backup option is available on all 12 and 24VDC models that provides a float charge and automatic battery revert for an external battery. The 12 and 24VDC models (except for the 480 watt models) also include a low voltage disconnect that is factory preset at 10VDC. A highly accurate digital meter is available on all models.

Performance and Flexibility

Models are available from 480 to 1440 watts, with DC output in 12, 24 and 48 volts to cover virtually every application requirement. Extremely low output voltage ripple won't cause problems with your communications equipment, and the universal power factor corrected input ensures maximum energy savings.

Flexible options allow you to build your power systems the way you need them. All models are available in a 19" rack mount tray.

Reliability

ICT High Power Series are designed and built in North America with the highest quality components available. Careful system design virtually eliminates internal wiring and connections that can fail. The wide input voltage range is less susceptible to voltage spikes and drops. Every unit is extensively tested before it leaves the factory.

Developed For Power Systems Needs

The ICT High Power Series was designed with site requirements in mind. Every model comes standard with remote shutdown and AC status alarm contacts, and a unique intelligent load sharing function when paralleling multiple High Power Series.

Energy Saving Design

The high-efficiency design combined with power factor corrected input helps reduce your energy costs. Thermally controlled fan only turns on when needed.



BASE MODEL SELECTION GUIDE

Watts	12VDC Output	24VDC Output	48VDC Output
480	ICT24012-40AZ	ICT24024-20AZ	ICT24048-10AZ
720	ICT24012-60AZ		
960	ICT24012-80AZ	ICT24024-40AZ	ICT24048-20AZ
1200	ICT24012-100AZ		
1440	ICT24012-120AZ	ICT24024-60AZ	ICT24048-30AZ

OPTIONS GUIDE

Description		Add Suffix	Ordering Examples
Digital Meter	Displays voltage and current	M	ICT24048-10AZM
Rack Mount	Power supply comes mounted on 2RU 19 inch rack	R	ICT24024-40AZR
Battery Backup <i>(not available on 48VDC models)</i>	Diode protected terminal to provide float charge to external battery and automatic battery revert. Low voltage cut-out at 10VDC <i>(except 480W models)</i>	B	ICT12012-80AZB
Flexible Combinations	Options can be combined to best suit your requirements		ICT12012-80AZBR ICT12012-80AZRM ICT18012-80AZBRM



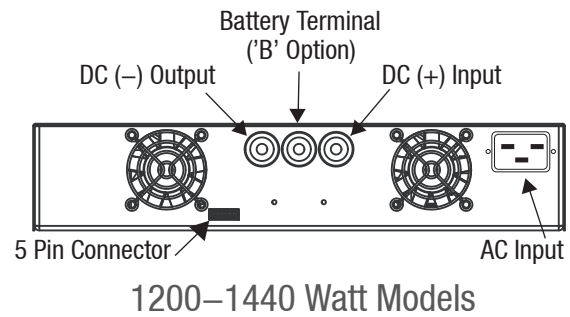
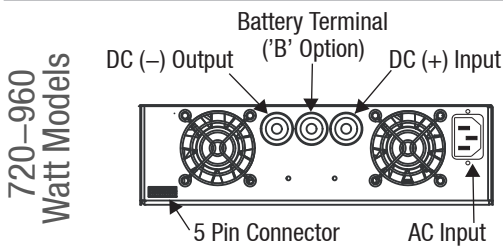
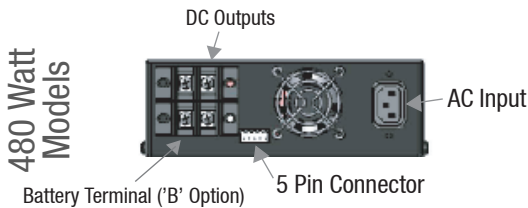
All models can be ordered with a 19" 2RU rack by adding the suffix 'R' to the model number



Specifications

	Model Number	Input Voltage Range	Output Voltage	Output Current (Cont.)	Output Current (Peak)	Current Limiting	Line Regulation	Load Regulation	Output Ripple (Typical)	Efficiency (Typical)	Power Factor (Min)	Operating Temperature Range	Dimensions (Refer to Table)
12VDC Output	ICT24012-40AZ	100-265 VAC 50/60Hz	13.8 VDC +/- 150 mV	40 Amps	40 Amps	+5%	<0.5%	<0.5%	40mV RMS	89%	>0.99	-30C to +40C	A
	ICT24012-60AZ			60 Amps	60 Amps		0.1%	0.5%	40mV RMS				B
	ICT24012-80AZ			80 Amps	80 Amps		0.1%	0.5%	40mV RMS				B
	ICT24012-100AZ			100 Amps	100 Amps		0.1%	0.5%	60mV RMS				C
	ICT24012-120AZ			120 Amps	120 Amps		0.1%	0.5%	70mV RMS				C
24VDC Output	ICT24024-20AZ		27.6 VDC +/- 300 mV	20 Amps	20 Amps		<0.5%	<0.5%	80mV RMS				A
	ICT24024-40AZ			40 Amps	40 Amps		0.1%	0.5%	60mV RMS				B
	ICT24024-60AZ			60 Amps	60 Amps		0.1%	0.5%	90mV RMS				C
48VDC Output	ICT24048-10AZ		48.0 VDC +/- 300 mV	10 Amps	10 Amps		<0.5%	<0.5%	100mV RMS				A
	ICT24048-20AZ			20 Amps	20 Amps		0.1%	0.5%	85mV RMS				B
	ICT24048-30AZ			30 Amps	30 Amps		0.1%	0.5%	100mV RMS				C

Backplane Configuration (drawings not to scale)



Dimensions (outside)

Ref	Length	Width	Height
A	9.84"	7.33"	2.48"
B	12.82"	10.32"	2.95"
C	12.40"	15.10"	3.10"

Connector Functions

Pin	Function	Description
1	Remote Shutdown +	Application of a DC voltage of between 4 to 15VDC will shut down the power supply.
2	Remote Shutdown -	
3	AC Good +	AC Good is a status signal that indicates AC power is available to the unit. These two pins are the collector and source of an optocoupler which are closed when AC is good, open when AC is removed. (This circuit can be utilized in several ways. See manual for details).
4	AC Good -	
5	Sharing	When connecting two or more power supplies in parallel, connect terminal 5 pins together with a jumper to enable Intelligent load sharing.