

# CPCI-3U COTS Series

# 200-300 Watt Ruggedized cPCI Power Supply



## PRODUCT DESCRIPTION

These supplies are designed to meet MIL-STD-810 and MIL-STD 461 with external filters and are designated as COTS (Common Off The Shelf) products. The modular supplies are designed for harsh environment applications. All major components are securely anchored for use in applications that are subject to shock and vibration. In addition, the supplies will operate from -5°C to +55°C. Conformal coating and stainless steel covers further protect the power supplies.

- 200W to 300W in 3U
- MIL-STD-810 and MIL-STD 461 compliance
- Ruggedized construction & conformal coated
- Universal AC input with PFC
- PICMG 2.11 Compliant
- 48V & 24V DC input models available
- RoHS compliant
- Includes OR-ing FETs for N+1 parallel operation
- International regulatory approvals
- Active load current share

## INPUT

Input - AC Models	90-264VAC, 47-63 Hz
Power Factor	>0.90/0.95 Typ @ 110/220VAC (Full Load)
Hold-Up Time	16msec minimum (Full Load)
Inrush Current	<30/60A @ 110 / 230 VAC
Input - 48 Vin Models	36-72 VDC Input Range
Input - 24Vin Models	18-36 VDC Input Range

## OUTPUT

Line Regulation	± 0.5% for Vin (min.) to Vin (max.)
Transient Response	< 5% and recovers in 0.5msec
Over-Voltage Protection	110-125 of V1/V2/V3 (Latched Shut-down)
Overload Protection	V1 & V2 = 125% / V3 & V4 = 200%
Load Regulation	V1 & V2 = ± 1% Max V3 & V4 = ± 5% Max
Min. Load Requirement	None
Turn-On Delay	2 Sec. Max.
Initial Setting Accuracy	± 1%

## ENVIRONMENTAL

Operation Temperature	-5C ~ +55C. De-rate 2.5%/C up to +71C
Storage Temperature	-40C to +85C
Cooling	250 LFM Airflow Required
Humidity	Up to 95% RH Non-condensing
Shock & Vibration	0.75G Peak 5Hz - 500Hz
MTBF	>400,000 Hours per Belcore 332 issue 6

## STATUS & CONTROL

Remote Inhibit	Open Collector Inhibit
Power Fail	Open Collector ACTIVE Low
Over Temp Warning	Open Collector ACTIVE Low
Remote Sense	Compensates for < 500mV drop
Current Share	Single Wire
Front Panel Green LED	Outputs OK
Front Panel Red LED	Fault Condition

## ELECTROMAGNETIC COMPATIBILITY

Electrostatic Discharge	EN61000-4-2, ±4KV Contact / ±8KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, ±2KV
Surges	EN61000-4-5, ±2KV Line-Earth, ±1KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15-800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-11, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% Reduction, 5s
Fluctuations & Flicker	EN61000-3-3

## SAFETY & EMISSIONS

Safety Approvals	UL/cUL60950, EN60950, CE Mark (LVD)
Emissions	EN55022 Level B

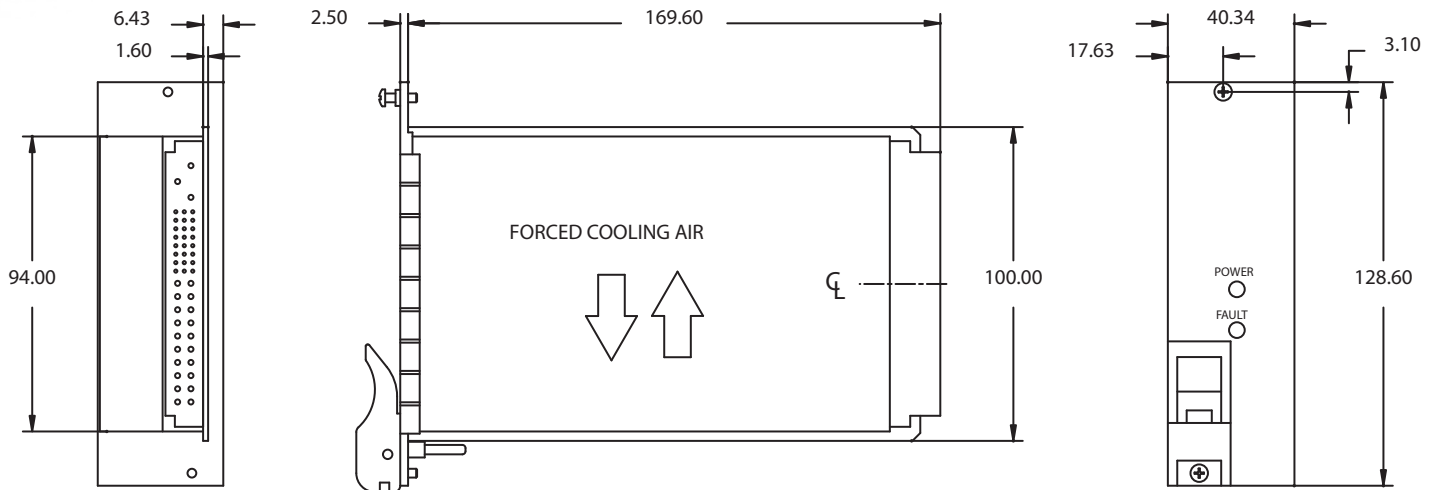
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### Model Selection Guide

Model	Input	Power	V1 Output	V2 Output	V3 Output	V4 Output	Efficiency
CPCI-AC-3U-200-COTS	90-264VAC	200W	+5V/25A	+3.3V/35A	+12V/3A	-12V/0.5A	79-81%
CPCI-AC-3U-300-COTS	90-264VAC	300W	+5V/30A	+3.3V/40A	+12V/5A	-12V/0.5A	79-81%
CPCI-DC-3U-200/24-COTS	24VDC (18-36)	200W	+5V/25A	+3.3V/35A	+12V/3A	-12V/0.5A	82%
CPCI-DC-3U-300/24-COTS	24VDC (18-36)	300W	+5V/30A	+3.3V/40A	+12V/5A	-12V/0.5A	82%
CPCI-DC-3U-200/48-COTS	48VDC (36-72)	200W	+5V/25A	+3.3V/35A	+12V/3A	-12V/0.5A	83%
CPCI-DC-3U-300/48-COTS	48VDC (36-72)	300W	+5V/30A	+3.3V/40A	+12V/5A	-12V/0.5A	83%

Consult Factory for other input and power level options



Revision A: 01/14/09 All specifications subject to change. Please consult Digital Power for latest specifications.