

CPCI 3U Series

200-300 Watt High Density Compact PCI Power Supply



PRODUCT DESCRIPTION

The DP Series of switching power supplies utilizes advanced component and circuit technologies to deliver the industry's smallest 350 Watt DC/DC power supply. Built to meet 1U height considerations, the U-Frame package measures only 6.8 x 3.8 x 1.4". DP models offer 48 VDC input and compliance to worldwide safety and EMC standards. Features include:

- 200W to 300W in 3U
- Ruggedized construction
- 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

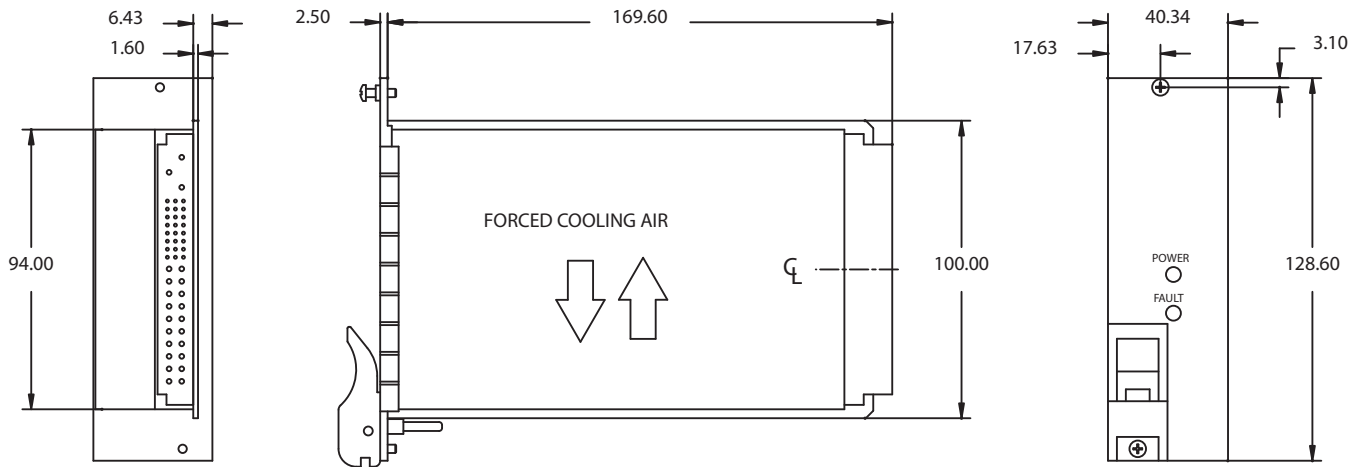


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Model Selection Guide

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



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