

CPCI-6U Series

400-600 Watt Compact PCI Power Supply



PRODUCT DESCRIPTION

The CPCI 6U Series of power supplies offer industry leading performance with a full range of AC Input, 24VDC Input and 48VDC Input products. The entire range of products are compliant to the PICMG 2.11 power interface specification and provide from 400-600 Watts of output power. Features include:

- 400W to 600W in 6U
- 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	<35/65A @ 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%
Ripple / Noise	V1, V2 - 60mV V3, V4 = 120mV (20MHz Bandwidth)

ENVIRONMENTAL

Operation Temperature	-5C ~ +55C. De-rate 2.5%/C up to +71C
Storage Temperature	-40C to +85C
Cooling	400-500W=250 LFM / 600W= 400LFM airflow
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	Active Low = Off
DC 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

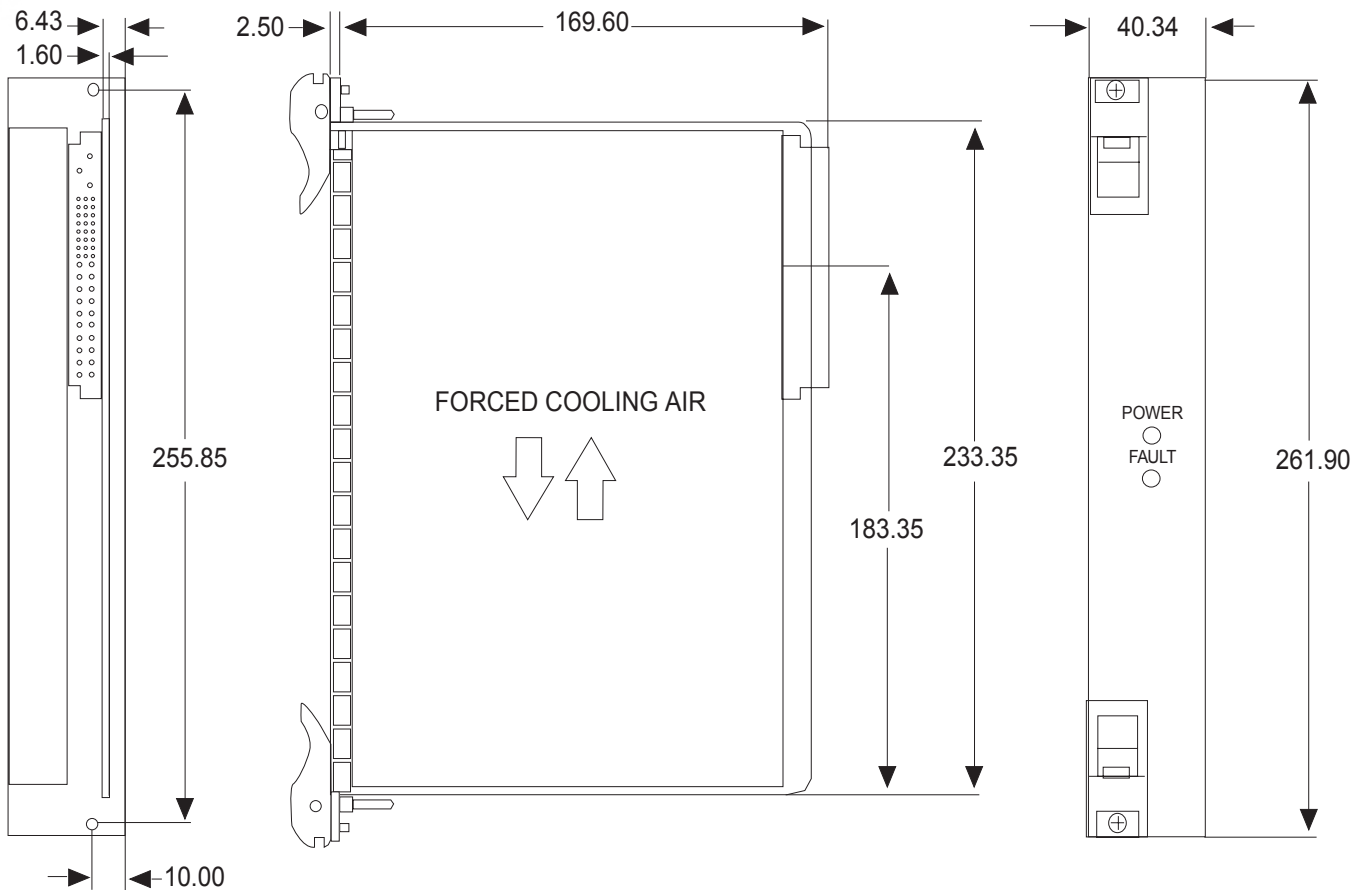
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Model Selection Guide

Model	Input	Output Power	V1 Output	V2 Output	V3 Output	V4 Output	Efficiency (Typical)
CPCI-AC-6U-400	90-264VAC	400W	+5V/50A	+3.3V/80A	+12V/7A	-12V/1.5A	79%
CPCI-AC-6U-500	90-264VAC	500W	+5V/65A	+3.3V/80A	+12V/12A	-12V/1.5A	83%
CPCI-AC-6U-600	90-264VAC	600W	+5V/65A	+3.3V/80A	+12V/12A	-12V/1.5A	83%
CPCI-DC-6U-350/24	24VDC (18-36)	350W	+5V/50A	+3.3V/60A	+12V/7A	-12V/1.5A	83%
CPCI-DC-6U-400/48	48VDC (36-72)	400W	+5V/50A	+3.3V/80A	+12V/7A	-12V/1.5A	79-81%
CPCI-DC-6U-500/48	48VDC (36-72)	500W	+5V/65A	+3.3V/80A	+12V/12A	-12V/1.5A	79-81%
CPCI-DC-6U-600/48	48 vdc (36-72)	600W	+5V/65A	+3.3V/80A	+12V/12A	-12V/1.5A	79-81%

Consult factory for other input and power level options.



Revision A: 01/21/09 All specifications subject to change. Please consult Digital Power for latest specifications.