Cool Power Technologies™ CPC 4:1 Chassis Series

DC/DC

Up to120W Output Power

- Input Range: 9 - 36VDC or 18 - 72VDC
- Industrial Chassis Mount
- High Efficiency
- Remote Shutdown
- Undervoltage Lockout w/hyst

The up to 120 Watt CPC 4:1 input series high performance DC-DC converters offer high efficiencies of 92% typical (12V model.) This high efficiency allows for minimal output current derating at elevated ambient temperatures. Additional features include trim or remote on/off control logic (negative or positive enable) and an operating temperature range of -40°C to +85°C (w/ derating.) Units are fully encapsulated, have 4 threaded mounting insert-hole mounts and rugged screw terminals for I/O connections.

Applications

These units are ideally suited for industrial, transportation, electric vehicles, solar and other unique applications where printed circuit board mount is not available.

Specifications

INPUT

Voltage Range	9 - 36 or 18 - 72 VDC
Remote ON/OFF control	Neg. or Pos.
UVLO w/hysteresis	

OUTPUT

Nominal Output	3.3, 5.0, 12 15 or 24VDC
Setpoint accuracy	± 1.5%
Trim Range	±10%
Ripple and Noise (TYP)	60mV Pk-Pk
Short Circuit Protection	Auto-restart

GENERAL

Efficiency	92% TYP
Isolation	2250VDC

ENVIRONMENTAL

Operating Temperature	-40 - +85C
Storage Temperature	-40 - +100C

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SEMICONDUCTOR CIRCUITS, INC.

CPC 4:1 Series Ordering Information

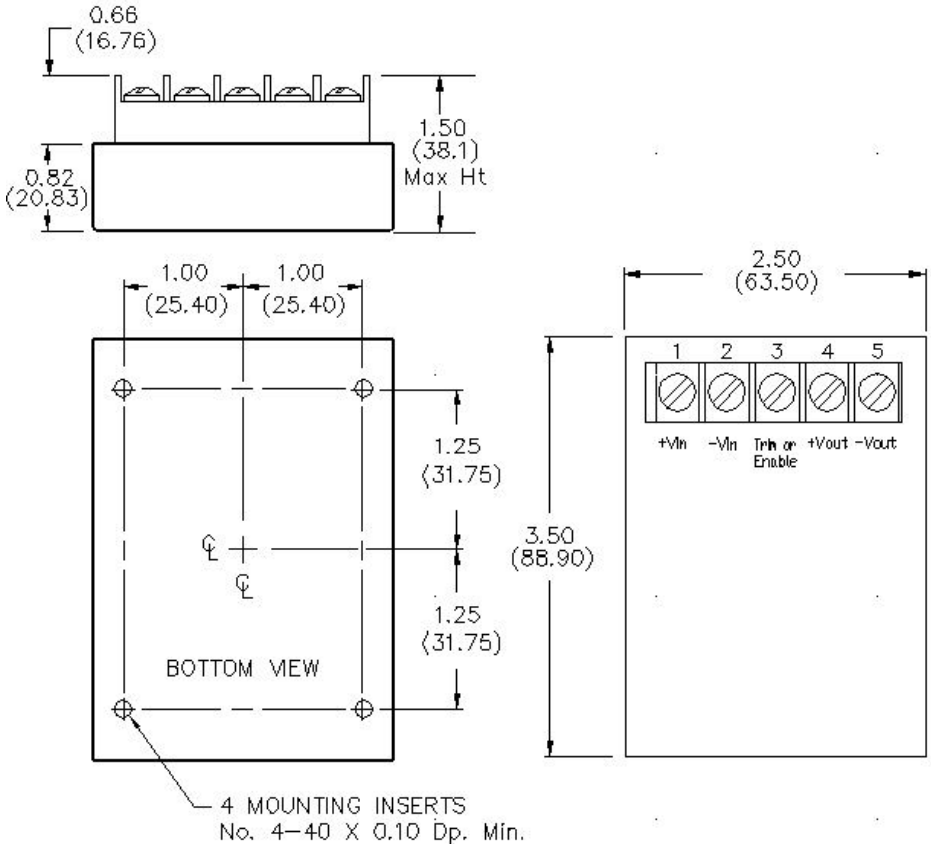
Model Number	Vout (Volts)	Iout (A, max)	Power (W)	Vin Nom. (Volts)	Input Range (Volts)	Ripple (mV P-P)	Efficiency (Typ)
CPC20F36*	3.3	20	66	48	18 - 72	50	90%
CPC15A36*	5	15	75	48	18 - 72	50	91%
CPC6B36*	12	6	72	48	18 - 72	60	92%
CPC10B36*	12	10	120	48	18 - 72	80	92%
CPC5C36*	15	5	75	48	20 - 72	60	92%
CPC4D36*	24	4	96	48	18 - 72	100	92%
CPC20F18*	3.3	20	66	24	9 - 36	50	90%
CPC15A18*	5	15	75	24	9 - 36	50	91%
CPC6B18*	12	6	72	24	9 - 36	60	92%
CPC8B18*	12	8	96	24	9 - 36	80	92%
CPC5C18*	15	5	75	24	10 - 36	60	92%
CPC3D18*	24	3	72	24	10 - 36	100	92%
CPC4D18*	24	4	96	24	10 - 36	100	91%

* add "T" for trim option, or either "N" or "P" for negative or positive enable option or leave blank for no connection

Note: Additional output voltages available upon request - consult factory

Mechanical Outline & Pin Assignments

Terminal Assignment

1. + Vin
2. - Vin
3. Trim or Enable
4. +Vout
5. -Vout

- All dimensions are in inches [mm]
- Terminal screws are #6-32 steel w/zinc clear chromate finish
- Converter Weight: 8.4 oz [238 g]