



DC/DC

Up to 168W Output Power

- INPUT RANGE: 18 - 36V_{DC}
OR 36 - 75V_{DC}
- INDUSTRIAL CHASSIS MOUNT
- HIGH EFFICIENCY
- REMOTE SHUTDOWN
- UNDERVOLTAGE LOCKOUT w/HYST

Specifications

INPUT

Voltage Range	18 - 36 or 36 - 75 V _{DC}
Remote ON/OFF control UVLO w/hysteresis	Neg. or Pos.

OUTPUT

Nominal Output	3.3, 5.0, 12, 15 24, 30 or 48V _{DC}
Setpoint accuracy	± 1.5%
Trim Range	+10/-20%
Ripple and Noise (TYP)	60mV Pk-Pk
Short Circuit Protection	Auto-restart

GENERAL

Efficiency	93% TYP
Isolation	2250V _{DC}
Safety	Basic Insulation

ENVIRONMENTAL

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

The up to 168 Watt CPC 2:1 input series high performance DC-DC converters offer high efficiencies of 93% 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 solar, industrial, transportation, electric vehicles and other unique applications where printed circuit board mount is not available.



CPC 2:1 Series Ordering Information

Model Number	Vout (Volts)	Iout (A, max)	Power (W)	Vin Nom. (Volts)	Input Range (Volts)	Ripple (mV P-P)	Efficiency (Typ)
CPC30F24*	3.3	30	99	24	18 - 36	50	91%
CPC20A24*	5	20	100	24	18 - 36	50	92%
CPC14B24*	12	14	168	24	18 - 36	65	93%
CPC10C24*	15	10	150	24	18 - 36	70	93%
CPC5D24*	24	5	120	24	18 - 36	80	93%
CPC30F48*	3.3	30	99	48	36 - 75	50	91%
CPC20A48*	5	20	100	48	36 - 75	50	92%
CPC14B48*	12	14	168	48	36 - 75	65	94%
CPC10C48*	15	10	150	48	36 - 75	65	93%
CPC5D48*	24	5	120	48	36 - 75	80	93%
CPC5R48*	30	4.65	140	48	36 - 75	100	93%
CPC1U48*	48	1.2	60	48	36 - 75	200	91%

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

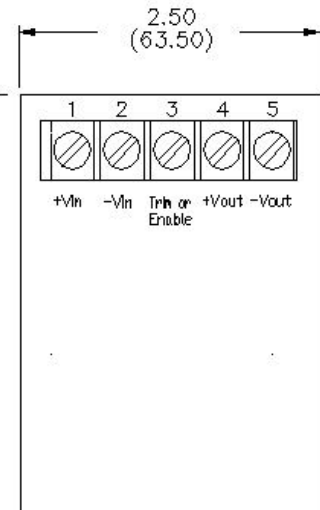
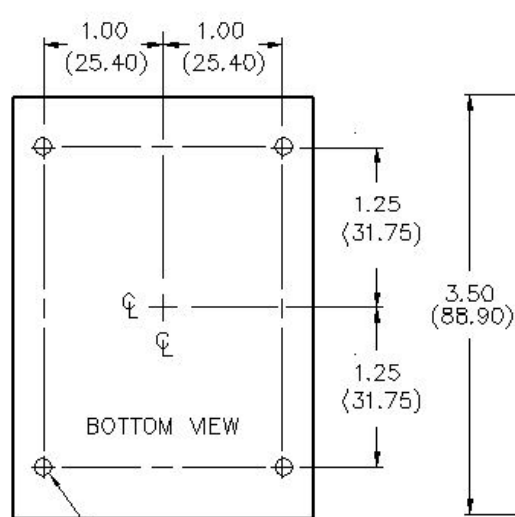
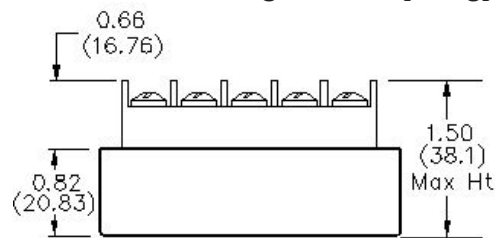
Note: Additional output voltages available upon request - consult factory

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]



4 MOUNTING INSERTS
No. 4-40 X 0.10 Dp. Min.