Cool Power Technologies™ CPP 4:1 Chassis Series

RoHS COMPLIANT

DC/DC

Up to 72W Output Power

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

The up to 72 Watt CPP (Cool Power "Potted") 4:1 input series high performance compact 2" x 2" x 1.2" chassis mount series offers a rugged package in applications where a PCB may not be available to mount to. 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 the option for 4 threaded insert mounts and rugged screw terminals for I/O connections.

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)	50mV Pk-Pk
Short Circuit Protection	Auto-restart
GENERAL	
Efficiency	90% TYP
Isolation	2250Vdc
ENVIRONMENTAL	
Operating Temperature	-40 - +85C
Storage Temperature	-40 - +100C

Applications

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

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SEMICONDUCTOR CIRCUITS, INC.

CPP 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)
CPP15F36*	3.3	15	50	48	18 - 72	50	90%
CPP10A36*	5	10	50	48	18 - 72	50	91%
CPP4B36*	12	4.2	50	48	18 - 72	60	90%
CPP6B36*	12	6	72	48	18 - 72	80	92%
CPP3C36*	15	3	45	48	18 - 72	60	91%
CPP2D36*	24	2	48	48	18 - 72	100	91%
CPP15F18*	3.3	15	50	24	9 - 36	50	90%
CPP8A18*	5	8	40	24	9 - 36	50	90%
CPP4B18*	12	4.2	50	24	9 - 36	60	90%
CPP6B18*	12	6	72	24	9 - 36	80	92%
CPP3C18*	15	3	45	24	9 - 36	60	91%
CPP2D18*	24	2	48	24	9 - 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; add “M” suffix for optional mounting inserts.

Note: Additional output voltages/power levels 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: 3.4 oz [96 g]