



DC/DC

50W Output Power

- INPUT RANGE: 9 - 36V_{DC}
OR 18 - 72V_{DC}
- DOSA COMPLIANT
- HIGH EFFICIENCY
- REMOTE SHUTDOWN
- UNDERVOLTAGE LOCKOUT W/HYST

Specifications

INPUT

Voltage Range	9 - 36 or 18 - 72 V _{DC}
Remote ON/OFF control	Neg. or Pos.
UVLO w/hysteresis	

OUTPUT

Nominal Output	3.3, 5.0, 12 or 15V _{DC}
Setpoint accuracy	± 1.5%
Trim Range	± 10%
Ripple and Noise (TYP)	50mV Pk-Pk
Short Circuit Protection	Auto-restart

GENERAL

Efficiency	90% TYP
Isolation	2250V _{DC}
Safety	Basic Insulation

ENVIRONMENTAL

Operating Temperature	-40 - 85C
Storage Temperature	-40 - 125C

The up to 50 Watt CPT 4:1 input series high performance DC-DC converters offer high efficiencies of 90% typical (3.3V model.) This high efficiency allows for minimal output current derating at elevated ambient temperatures. Additional features include trim, remote sense, remote on/off control logic (negative or positive enable) and an operating temperature range of -40°C to +85°C (w/ derating.) These modules conform to industry standard DOSA footprint & feature set. Units are through-hole mount and fit into typical PCB assembly processes.

Applications

These units are ideally suited for telecom, instrumentation, industrial, data processing and networking applications including 'bus' converter applications.



CPT 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)
CPT15F36N	3.3	15	49.5	48	18 - 72	50	90%
CPT8A36N	5	8	40	48	18 - 72	50	90%
CPT4B36N	12	4	48	48	18 - 72	60	91%
CPT3C36N	15	3	45	48	18 - 72	60	91%
CPT15F18N	3.3	15	49.5	24	9 - 36	50	89%
CPT8A18N	5	8	40	24	9 - 36	50	89%
CPT4B18N	12	4	48	24	9 - 36	60	91%
CPT3C18N	15	3	45	24	9 - 36	60	91%

*Change "N" suffix to "P" for positive ON/OFF enable logic)

Note: Additional output voltages available upon request - consult factory

Mechanical Outline & Pin Assignments

Pin Assignment

1. + Vin
2. Enable
3. - Vin
4. - Vout
5. - Sense
6. Trim
7. + Sense
8. +Vout

- All dimensions are in inches [mm]
- Pins 1,2,3,5,6,7 are 0.040" [1.02] dia. with 0.070" [1.78] dia. shoulder
- Pins 4 and 8 are 0.062" [1.57] dia with 0.093" [2.36] shoulder
- Pin material: Brass
- Pin Finish: Gold over Nickel
- Converter Weight: 0.45 oz [12.8 g]

