



DC/DC

Up to 100W 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 18, 24 or 48V _{DC}
Setpoint accuracy	± 1.5%
Trim Range	+10%/-20%
Ripple and Noise (TYP)	50mV Pk-Pk
Short Circuit Protection	Auto-restart

GENERAL

Efficiency	92% TYP
Isolation	2250V _{DC}

ENVIRONMENTAL

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

The up to 100 Watt CPQ 2:1 input series high performance compact 2" x 2" x 1.18" chassis mount series offers a rugged package in applications where a PCB may not be available to mount to. Additional features include trim and 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 convenient 'tools not required' push-in connection terminals for I/O connections. Screw type terminals also available (1" max. ht., see page 2 below).

Applications

These units are ideally suited for industrial, transportation, electric vehicles, solar and other unique applications where print-



CPQ 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)
CPQ20F48*	3.3	20	66	48	36 - 75	50	91%
CPQ20A48*	5	20	100	48	36 - 75	50	92%
CPQ7B48*	12	7	84	48	36 - 75	60	93%
CPQ8B48*	12	8.3	100	48	36 - 75	80	93%
CPQ5C48*	15	5.5	82.5	48	36 - 75	60	92%
CPQ4L48*	18	4	72	48	36 - 75	60	93%
CPQ3D48*	24	3	72	48	36 - 75	80	92%
CPQ2U48*	48	1.5	72	48	36 - 75	100	90%
CPQ20F24*	3.3	20	66	24	18 - 36	50	90%
CPQ15A24*	5	15	75	24	18 - 36	50	92%
CPQ7B24*	12	7	84	24	18 - 36	60	92%
CPQ1C24*	15	1	15	24	18 - 36	50	91%
CPQ5C24*	15	5	75	24	18 - 36	60	92%
CPQ3D24*	24	3	72	24	18 - 36	80	91%

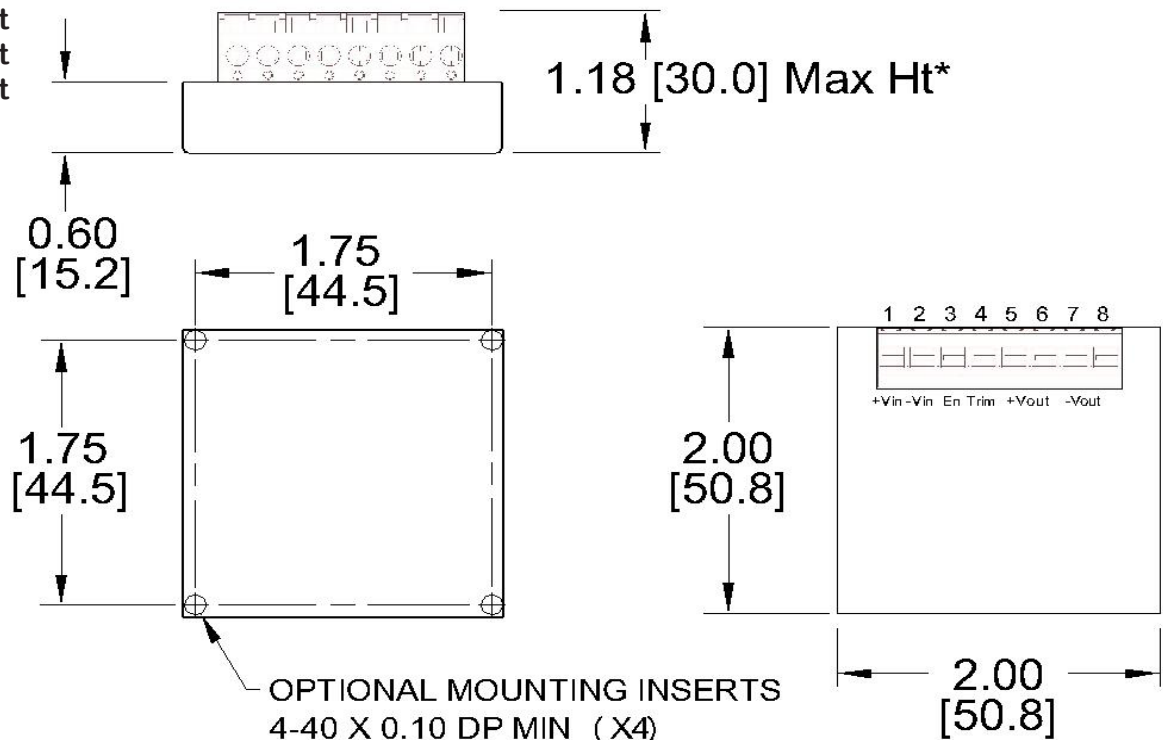
* add "N" or "P" for negative or positive enable; add "M" suffix for optional mounting inserts.
 Note: Additional output voltages/power levels available upon request - consult factory

Mechanical Outline & Pin Assignments

Terminal Assignment

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

- All dimensions are in inches [mm]
- Terminals are push-in spring loaded type, screw type available - add -S to end of P/N - e.g. CPQ8B48NMS which is negative enable and has mounting inserts and screw type I/O terminals.
- Max 14 AWG, Min 26 AWG wire, 16A max @ 70C per terminal
- Converter Weight: 3.4 oz [96 g]



*1.00 [25.4] max. height using screw style terminals