

CP30 4:1 SERIES



DC/DC

30W Output Power

- INPUT RANGE: 9 - 36 V_{DC}
OR 18 - 75 V_{DC}
- INDUSTRY COMPLIANT
- HIGH EFFICIENCY
- REMOTE SHUTDOWN
- UNDERVOLTAGE LOCKOUT w/HYST

Specifications

INPUT

Voltage Range 9 - 36 V_{DC}
OR 18 - 75 V_{DC}
Remote ON/OFF control Neg. or Pos.
UVLO w/hysteresis

OUTPUT

Nominal Output 3.3, 5.0,
12 or 24 V_{DC}
Setpoint accuracy +/-1.5%
Trim Range +/-10%
Ripple and Noise 50mV Pk-Pk
Short Circuit Protection Auto-restart

GENERAL

Efficiency 89% TYP
Isolation (open frame) 2250V_{DC}
Isolation (encapsulated) 1600V_{DC}

ENVIRONMENTAL

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

The 30 Watt CP30 1x1 4:1 input series high performance DC-DC converter offers high efficiencies of 89% typical. The high efficiency of the CP30 series allows for minimal derating over a wide ambient temperature range. Additional features include output voltage trim, remote on/off control logic (negative or positive enable) and an operating temperature range of -40°C to +85°C (w/ derating - see full datasheet.) Unit conforms to industry standard footprint & feature set. Units are through-hole (open frame or Encapsulated) or SMT (open frame only) mount to fit into typical PCB assembly processes.

Applications

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



CP30 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 (Full Load)
CP30B1775018P	3.3	7.5	25	24	9 - 36	50	88%
CP30B1160018P	5	6	30	24	9 - 36	50	89%
CP30B1225018P	12	2.5	30	24	9 - 36	50	89%
CP30B1412518P	24	1.25	30	24	9 - 36	60	89%
CP30B1775036P	3.3	7.5	25	48	18 - 75	50	88%
CP30B1160036P	5	6	30	48	18 - 75	50	89%
CP30B1225036P	12	2.5	30	48	18 - 75	50	89%
CP30B1412536P	24	1.25	30	48	18 - 75	60	89%

*Change "B" to "C" for encapsulated model - Eg. CP30C1775018P for encapsulated model

*Change "P" suffix to "N" for negative ON/OFF enable logic, blank = no enable or trim pins

*Add "S" to end of CP30B P/N for SMT version - example: CP30B1160036PS

Note: Voltages below 3.3V or above 15V available upon request - consult factory

Mechanical Outline & Pin Assignments

Pin Assignment

- | | |
|-----------|--|
| 1. + Vin | • All dimensions are in inches [mm] |
| 2. - Vin | • Pins are lead-free (ROHS). |
| 3. On/Off | • Pins are 0.040" [1.0mm] Diameter |
| 4. - Vout | • SMT pins are 0.060" [1.52 mm] Diameter (not shown) |
| 5. Trim | • Pin material: Copper/brass |
| 6. + Vout | • Pin Finish: Gold flash over nickel |

