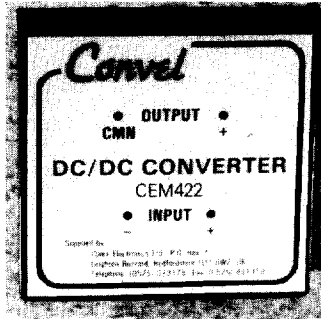


5 to 6 WATT DC/DC CONVERTERS CEM400 SERIES

- High Performance
- Regulated Outputs
- Pi Input Filter
- 60% Efficiency
- Six-Sided Shield



SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted.

INPUT SPECIFICATIONS

Input Voltage Range See Table
Input Filter Pi Network

OUTPUT SPECIFICATIONS

Voltage Accuracy ± 1.0% max.
Voltage Balance, Dual Output ± 0.5%
Temperature Coefficient
Single Output ± 0.02%/°C
Dual Output ± 0.01%/°C
Ripple and Noise, 20MHz BW
Single Output 50mV P-P max.
Dual Output 35mV P-P max.
Short Circuit Protection Short Term
Line Regulation 0.02%
Load Regulation 0.05%

GENERAL SPECIFICATIONS

Efficiency 60%
Isolation Voltage 500 VDC min.
Isolation Capacitance 80pF
Isolation Resistance 10⁹ ohms
Switching Frequency 23kHz, min.
Operating Temperature Range -25°C to +71°C
Storage Temperature Range -40°C to +100°C
EMI/RFI Six-Sided Continuous Shield¹
Dimensions 2 x 2 x 0.4 inches
(50.8 x 50.8 x 10.2 mm)

Case Material

Standard Models Non-Conductive Black Plastic
Suffix "M" Models Black Coated Copper with Non-Conductive Base

Input Voltage	60% FL	80% FL	100% FL
5V	4.4-6.5V	4.5-6.0V	4.65-5.5V
12V	10.56-15.6V	10.8-14.4V	11.16-13.2V
24V	21.12-31.2V	21.6-28.8V	22.32-26.4V
28V	24.64-36.4V	25.2-33.6V	26.04-30.8V
48V	42.24-62.4V	43.2-57.6V	44.64-52.8V

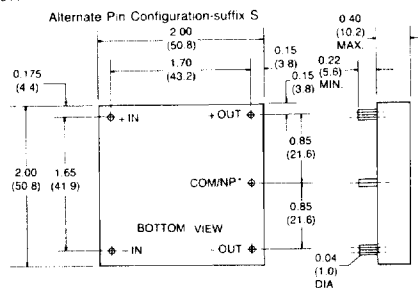
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		CASE	ALT ¹ PIN OUT
				NO LOAD	FULL LOAD		
CEM401	5 VDC	5 VDC	1000 mA	60 mA	1650 mA	C	S T
CEM402	5 VDC	12 VDC	470 mA	80 mA	1750 mA	C	S, T
CEM403	5 VDC	15 VDC	400 mA	85 mA	1800 mA	C	S, T
CEM404	5 VDC	± 12 VDC	± 230 mA	130 mA	1700 mA	C	S, T
CEM405	5 VDC	± 15 VDC	± 190 mA	130 mA	1700 mA	C	S, T
CEM406	12 VDC	5 VDC	1000 mA	40 mA	690 mA	C	S, T
CEM407	12 VDC	12 VDC	470 mA	50 mA	710 mA	C	S, T
CEM408	12 VDC	15 VDC	400 mA	40 mA	750 mA	C	S, T
CEM409	12 VDC	± 12 VDC	± 230 mA	60 mA	710 mA	C	S, T
CEM410	12 VDC	± 15 VDC	± 190 mA	60 mA	710 mA	C	S, T
CEM411	24 VDC	5 VDC	1000 mA	25 mA	350 mA	C	S, T
CEM412	24 VDC	12 VDC	470 mA	25 mA	360 mA	C	S, T
CEM413	24 VDC	15 VDC	400 mA	25 mA	370 mA	C	S, T
CEM414	24 VDC	± 12 VDC	± 230 mA	25 mA	360 mA	C	S, T
CEM415	24 VDC	± 15 VDC	± 190 mA	35 mA	360 mA	C	S, T
CEM416	28 VDC	5 VDC	1000 mA	25 mA	290 mA	C	S, T
CEM417	28 VDC	12 VDC	470 mA	25 mA	300 mA	C	S, T
CEM418	28 VDC	15 VDC	400 mA	25 mA	310 mA	C	S, T
CEM419	28 VDC	± 12 VDC	± 230 mA	30 mA	300 mA	C	S, T
CEM420	28 VDC	± 15 VDC	± 190 mA	30 mA	300 mA	C	S, T
CEM421	48 VDC	5 VDC	1000 mA	20 mA	170 mA	C	S, T
CEM422	48 VDC	12 VDC	470 mA	20 mA	170 mA	C	S, T
CEM423	48 VDC	15 VDC	400 mA	20 mA	180 mA	C	S, T
CEM424	48 VDC	± 12 VDC	± 230 mA	25 mA	170 mA	C	S, T
CEM425	48 VDC	± 15 VDC	± 190 mA	25 mA	170 mA	C	S, T

NOTE: 1. Alternate pin-out version. If available are designated by suffixes. For example, CEM401 is also available asCEM401S andCEM401T
2. NP (no pin) on single output models.
3. All dimensions in inches (mm)

NOTE: 1. Metal Case Only.

CASE C

Standard pin Configuration



Alternate Pin Configuration--Suffix T

