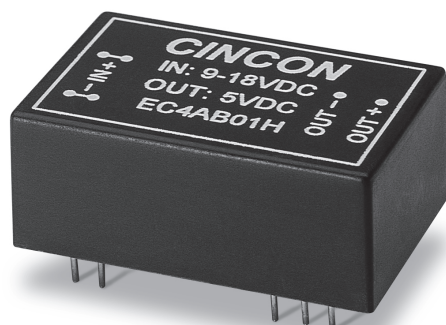


5-6 WATT EN55022 CLASS B DC-DC CONVERTERS



H/HM Versions Only



Features:

- 5-6W Isolated Output
- DIP-24 / SMD Package
- Regulated Outputs
- Efficiency to 84%
- Meets EN55022 Class B, Conducted
- Pi Input Filter
- Continuous Short Circuit Protection
- Remote On/Off Control (Option)

Electrical Characteristics:

MODEL Number(1)	INPUT VOLTAGE(2)	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF.(3)	Cap. Load
				NO LOAD	FULL LOAD		
EC4AB01	9-18 VDC	5 VDC	1000 mA	7.5 mA	548 mA	76	DIP-24
EC4AB02		12 VDC	470 mA	7.5 mA	588 mA	80	
EC4AB03		15 VDC	400 mA	7.5 mA	617 mA	81	
EC4AB04		±12 VDC	±230 mA	12 mA	568 mA	81	
EC4AB05		±15 VDC	±190 mA	12 mA	586 mA	81	
EC4AB06		±5 VDC	±500 mA	12 mA	548 mA	76	
EC4AB07		3.3 VDC	1000 mA	7.5 mA	382 mA	72	
EC4AB11	18-36 VDC	5 VDC	1000 mA	5 mA	264 mA	79	DIP-24
EC4AB12		12 VDC	470 mA	5 mA	283 mA	83	
EC4AB13		15 VDC	400 mA	5 mA	298 mA	84	
EC4AB14		±12 VDC	±230 mA	7.5 mA	284 mA	81	
EC4AB15		±15 VDC	±190 mA	7.5 mA	290 mA	82	
EC4AB16		±5 VDC	±500 mA	7.5 mA	264 mA	79	
EC4AB17		3.3 VDC	1000 mA	5 mA	188 mA	73	
EC4AB21	36-72 VDC	5 VDC	1000 mA	2 mA	132 mA	79	DIP-24
EC4AB22		12 VDC	470 mA	2 mA	143 mA	82	
EC4AB23		15 VDC	400 mA	2 mA	154 mA	81	
EC4AB24		±12 VDC	±230 mA	3 mA	142 mA	81	
EC4AB25		±15 VDC	±190 mA	3 mA	148 mA	80	
EC4AB26		±5 VDC	±500 mA	3 mA	132 mA	79	
EC4AB27		3.3 VDC	1000 mA	3 mA	94 mA	73	

NOTE: 1. Nominal Input Voltage 12, 24 or 48 VDC

Specification

INPUT SPECIFICATIONS:

Input Voltage Range	12V	9-18V
	24V	18-36V
	48V	36-72V
Positive Logic Remote ON/OFF (see note6)		
Input Filter		Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy.....		±2.0% max.
Voltage Balance(Dual)		±1.0% max
Temperature Coefficient.....		±0.05%/°C
Ripple & Noise, 20MHz BW (Note 5)	3.3V/5V	100mV p-p, max
	12V/15V	1% p-p max
Short Circuit Protection		Continuous
Line Regulation	Single/Dual (Note 1)	±0.5% max
Load Regulation	Single (Note 2)	±0.5% max
	Dual (Note 3)	±1.0% max

GENERAL SPECIFICATIONS:

Efficiency		See Table
Isolation Resistance		10 ⁹ ohm min
Switching Frequency.....		100KHz, min
Operating Ambient Temperature Range		-25°C to +71°C
De-rating, Above 71°C(Plastic Case).....		Linearly to Zero power at 95°C
De-rating, Above 71°C (Copper Case)....		Linearly to Zero power at 100°C
Case Temperature (Note 4)	Plastic/Copper case...	95°C/100°C max
Cooling		Natural Convection
Storage Temperature Range		-40°C to +100°C
EMI / RFI.....		Conductive EMI Meet EN55022 Class B
Dimensions.....DIP.....	1.25 x 0.80 x 0.50 inches(31.8 x 20.3 x 12.7mm)	
SMD	1.25 x 0.80 x 0.55 inches(31.8 x 20.3 x 14.0mm)	
Weight.....		15g

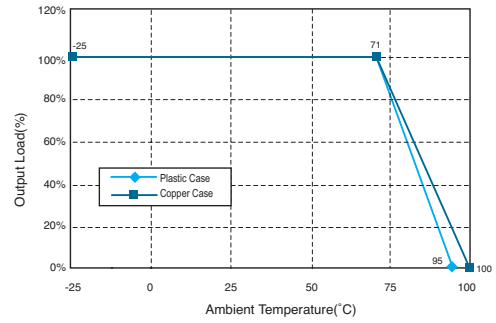
ISOLATION VOLTAGE:

500 VDC min.....		Standard Models
3K VDC min4.....		Suffix "H" Models
1.5 K VDC min.....		Suffix "HM" Models

CASE MATERIAL:

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

EC4AB Series Derating curve



NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to 10% Load
3. Measured From Full Load to 1/4 Load
4. Non-Conductive Black Plastic Only
5. Suffix "T" to the Model Number with Remote On/Off for "H"/"HM" Versions Only
6. Logic Compatibility CMOS or Open Collector TTL, ref. to -Vin
 - Module ON
 - Module OFF
 - Shutdown Idle
 - Control Common
7. Suffix "S" to the Model Number with SMD packages
8. Maximum case temperature under any operating condition should not exceed 95°C(Plastic Case),100°C(Copper Case).

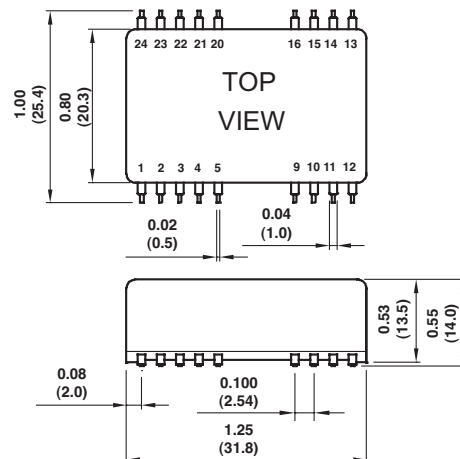
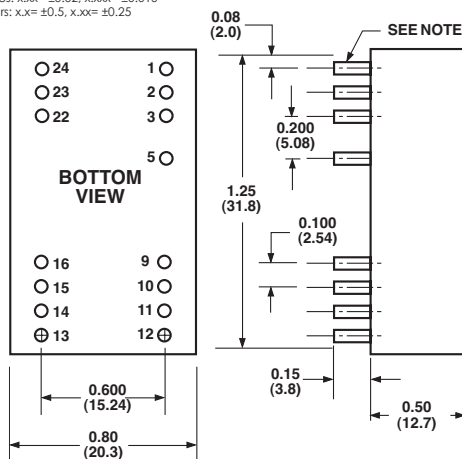
PIN CONNECTION

500 VDC					1.5K & 3K VDC				
Pin	Single Output		Dual Output		Pin	Single Output		Dual Output	
	DIP	SMD	DIP	SMD		DIP	SMD	DIP	SMD
1,24	+V Input		+V Input		1,24	NP	NC	NP	NC
2,23	NC		-V Output		2,3	-V Input		-V Input	
3,22	NC		Common		4	NP	NC	NP	NC
4	NP	NC	NP	NC	5	NP/ Remote On/Off	NC/ Remote On/Off	NP/ Remote On/Off	NC/ Remote On/Off
5	NP	NC	NP	NC	9	NC		Common	
9	NP	NC	NP	NC	10,15	NC		NC	
10,15	-V Output		Common		11	NC		-V Output	
11,14	+V Output		+V Output		12,13	NP	NC	NP	NC
12,13	-V Input		-V Input		14	+V Output		+V Output	
16	NP	NC	NP	NC	16	-V Output		Common	
20	NP	NC	NP	NC	20,21	NP	NC	NP	NC
21	NP	NC	NP	NC	22,23	+V Input		+V Input	

*NP-NO PIN *NC-NO CONNECTION WITH PIN *Remote On/Off (Option)

Case A Dimensions

NOTE:Pin Size is 0.02" Inch (0.5mm) DIA
All Dimensions in Inches(mm)
Tolerance Inches: x.xx=±0.02, x.xxx= ±0.010
 Millimeters: x.x= ±0.5, x.xx= ±0.25



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

Data sheets are subject to change without notice