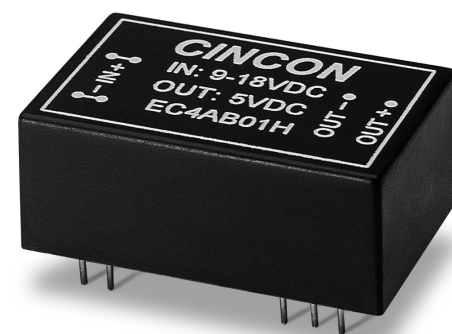
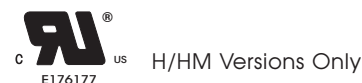


EC4AB

5-6 WATT WIDE INPUT DC-DC CONVERTERS



Features

- 5-6 W Isolated Output
- 24-Pin DIP Package
- Efficiency to 82%
- 2:1 Input Range
- Regulated Outputs
- Pi Input Filter
- Continuous Short Circuit Protection
- Meets EN55022 Class B, Conducted
- Remote ON/OFF Option

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	% EFF.	CASE
EC4AB01	9-18 VDC	5 VDC	1000 mA	7.5 mA	545 mA	76	A
EC4AB02		12 VDC	470 mA	7.5 mA	585 mA	80	
EC4AB03		15 VDC	400 mA	7.5 mA	625 mA	80	
EC4AB04		±12 VDC	±230 mA	12 mA	575 mA	80	
EC4AB05		±15 VDC	±190 mA	12 mA	590 mA	80	
EC4AB06		±5 VDC	±500 mA	12 mA	545 mA	76	
EC4AB07		3.3 VDC	1000 mA	7.5 mA	393 mA	70	
EC4AB11	18-36 VDC	5 VDC	1000 mA	5 mA	265 mA	78	A
EC4AB12		12 VDC	470 mA	5 mA	285 mA	82	
EC4AB13		15 VDC	400 mA	5 mA	305 mA	82	
EC4AB14		±12 VDC	±230 mA	7.5 mA	285 mA	81	
EC4AB15		±15 VDC	±190 mA	7.5 mA	295 mA	81	
EC4AB16		±5 VDC	±500 mA	7.5 mA	265 mA	78	
EC4AB17		3.3 VDC	1000 mA	5 mA	197 mA	70	
EC4AB21	36-72 VDC	5 VDC	1000 mA	2 mA	133 mA	78	A
EC4AB22		12 VDC	470 mA	2 mA	145 mA	81	
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	147 mA	81	
EC4AB26		±5 VDC	±500 mA	3 mA	133 mA	78	
EC4AB27		3.3 VDC	1000 mA	2 mA	98 mA	70	

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

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....	12V.....	9-18V
.....	24V.....	18-36V
.....	48V.....	36-72V
Input Filter.....	Pi Type	

OUTPUT SPECIFICATIONS:

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

GENERAL SPECIFICATIONS:

Efficiency.....	See Table	
Isolation Resistance.....	10 ⁹ ohms	
Switching Frequency.....	100KHz, min	
Operating Temperature Range.....	-25°C to + 71°C	
Case Temperature (Plastic case).....	95°C max.	
..... (Copper case).....	100°C max.	
Cooling.....	Free-Air Convection	
Storage Temperature Range.....	-40°C to + 100°C	
EMI / RFI.....	Conductive EMI Meet EN55022 Class B	
Dimensions.....	1.25 x 0.8 x 0.5 inches (31.8 x 20.3 x 12.7mm)	
Weight.....	15g	

ISOLATION VOLTAGE:

500 VDC min.....	Standard Models
3K VDC min ⁴	Suffix "H" Models

CASE MATERIAL:

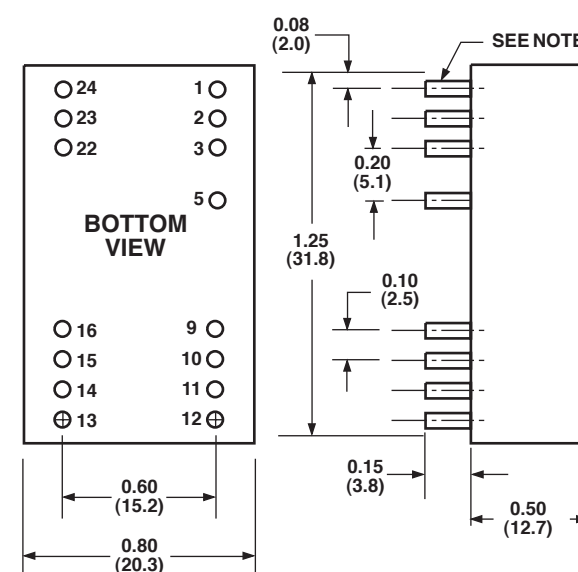
Standard Models.....	Non-Conductive Black Plastic
Suffix "M" Models ⁵	Black Coated Copper with Non-Conductive Base

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 "HM" 1.5K VDC Instead of 3K VDC Isolation
6. Suffix "T" to the Model Number with Remote On/Off for "H"/"HM" Versions Only

CASE A

NOTE: Pin Size is 0.02" Inch (0.5mm) DIA
All Dimensions in Inches (mm)
Tolerance .xx= ±.02, .xxx= ±.010



Remote On/Off Control

Logic Compatibility	CMOS or Open Collector TTL
Ec-On	>+5.5 VDC or Open Circuit
Ec-Off	<1.8 VDC
Shutdown Idle Current	10mA
Control Common	Referenced to Input Minus

PIN CONNECTION

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

*NP-NO PIN

*NC-NO CONNECTION WITH PIN