

EC4A**5-6 WATT WIDE INPUT DC-DC CONVERTERS**

- 5-6W Isolated Output
- 24-Pin DIP Package
- Efficiency to 82 %
- 2:1 Input Range
- Regulated Outputs
- Pi input Filter
- Continuous Short Circuit Protection



Model Num	V _{In}	V _{Out}	I _{Out}	I _{No Load}	I _{Full Load}	Eff	Case
EC4A01	9-18 VDC	5.0 VDC	1000.0 mA	7.5 mA	545.0 mA	76 %	A
EC4A02	9-18 VDC	12.0 VDC	470.0 mA	7.5 mA	585.0 mA	80 %	A
EC4A03	9-18 VDC	15.0 VDC	400.0 mA	7.5 mA	625.0 mA	80 %	A
EC4A04	9-18 VDC	±12.0 VDC	±230.0 mA	12.0 mA	575.0 mA	80 %	A
EC4A05	9-18 VDC	±15.0 VDC	±190.0 mA	12.0 mA	590.0 mA	80 %	A
EC4A06	9-18 VDC	±5.0 VDC	±500.0 mA	12.0 mA	545.0 mA	76 %	A
EC4A07	9-18 VDC	3.3 VDC	1000.0 mA	7.5 mA	405.0 mA	68 %	A
EC4A11	18-36 VDC	5.0 VDC	1000.0 mA	5.0 mA	265.0 mA	78 %	A
EC4A12	18-36 VDC	12.0 VDC	470.0 mA	5.0 mA	285.0 mA	82 %	A
EC4A13	18-36 VDC	15.0 VDC	400.0 mA	5.0 mA	605.0 mA	82 %	A
EC4A14	18-36 VDC	±12.0 VDC	±230.0 mA	7.5 mA	285.0 mA	81 %	A
EC4A15	18-36 VDC	±15.0 VDC	±190.0 mA	7.5 mA	295.0 mA	81 %	A
EC4A16	18-36 VDC	±5.0 VDC	±500.0 mA	7.5 mA	265.0 mA	78 %	A
EC4A17	18-36 VDC	3.3 VDC	1000.0 mA	5.0 mA	195.0 mA	70 %	A
EC4A21	36-72 VDC	5.0 VDC	1000.0 mA	2.0 mA	133.0 mA	78 %	A
EC4A22	36-72 VDC	12.0 VDC	470.0 mA	2.0 mA	145.0 mA	81 %	A
EC4A23	36-72 VDC	15.0 VDC	400.0 mA	2.0 mA	154.0 mA	81 %	A
EC4A24	36-72 VDC	±12.0 VDC	±230.0 mA	3.0 mA	142.0 mA	81 %	A
EC4A25	36-72 VDC	±15.0 VDC	±190.0 mA	3.0 mA	147.0 mA	81 %	A
EC4A26	36-72 VDC	±5.0 VDC	±500.0 mA	3.0 mA	265.0 mA	78 %	A
EC4A27	36-72 VDC	3.3 VDC	1000.0 mA	2.0 mA	98.0 mA	70 %	A

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.

Short Circuit Protection
Line Regulation, Single/Dualxxx
Load Regulation, Singlexxx
Dualxxx

12V / 15V-----
-1% p-p max.
Continuous
+/-0.5%
+/-0.5%
+/-1.0%

General Specifications

Efficiency
Isolation Resistance
Switching Frequency
Operating Temperature Range
Case Temperature(Plastic case)
(Copper case)
Cooling
Storage Temperature Range
Dimensions

See Table
10⁹ ohms
100KHz, min
-25°C to +71°C
95°C max.
100°C max.
Free-Air Convection
-40°C to +100°C
1.25X0.8X0.4 Inches
(31.8X20.3X10.2mm)

Isolation Voltage

500VDC min
3K VDC min

Standard Models
Suffix"H" Models

Case Material

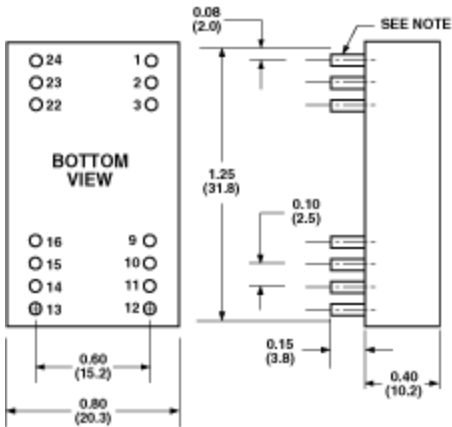
Standard Modelsxxx
Suffix"M" Modelsxxx

Non-Conductive Black
Plastic
Black Coated Copper
with Non-Conductive
Base

Notes

- 1.
- 2.
- 3.
- 4.
- 5.

Measured From High
Line to Low Line
Measured From Full
Load to 10% Load
Measured From Full
Load to 1/4 Load
Non-Conductive Black
Plastic Only
Suffix"HM" 1.5K VDC
Instead of 3K VDC
Isolation



PIN CONNECTION					
500 VDC			(1.5K & 3K) VDC		
Pin	Single Output	Dual Output	Pin	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
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 *TP-TEST POINT
 *NC-NO CONNECTION WITH PIN *GO-GROUND

All specifications typical at nominal line, full load, and 25deg C unless otherwise noted.