5 Watts AA05E

Total Power: 5 Watts

Input Voltages: 12V, 24V or 48V No. of Outputs: Single, Dual



Special Features

- 2:1 Input range
- 1.25 x 0.80 x 0.40 Case size
- 1500Vdc Isolation

Environmental

Operating ambient temperature -40°C to +85°C (full load, no derating)

Baseplate: 100°C max

Storage temperature: -40°C to +125°C Humidity: 5% to 95% (non-condensing)

Cooling method: Convection

MTBF: >1,000,000 hours (MIL-HDBK-217F)

Conducted EMI: EN55022, Class B UL, CSA, EN60950 Certified

Electrical Specs

Input

Input Range Input Capacitance

Input reverse voltage protection

Input Filter Efficiency

9-18 Vdc; 18-36 Vdc; 36-72 Vdc

2.5 µF (typ)

Fuse recommended

85% typ

Output

Voltage Tolerance Output 1 and 2 $-\pm 1\%$ Line Regulation Load Regulation Noise/Ripple

Short Circuit Protection Overvoltage Protection Transient Response

Switching Frequency Temperature Coefficient Output 1 and 2 - \pm 0.5% 1 % mV P-P (see note 1)

Continuous Current Limit

Zener Clamp

500 µsec max (50% step load change to within 1%Vo)

200kHz ± 0.02%/° C

Isolation

I/O isolation 1500Vdc Isolation resistance 1 x 109 ohms



AMERICAS

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EUROPE

Astec House, Waterfront Business Park Merry Hill, Dudley West Midlands, DV5 1LX, UK Telephone: 44 (1384) 842-211 Facsimile: 44 (1384) 843-355



Ordering Information

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	Input Voltage	Output 1 Voltage	Output 2 Voltage	Maximum Power	Model Number
	9-18VDC 9-18VDC 9-18VDC 9-18VDC 9-18VDC 9-18VDC 9-18VDC 9-18VDC 18-36VDC 18-36VDC 18-36VDC 18-36VDC 18-36VDC 18-36VDC 36-72VDC 36-72VDC 36-72VDC 36-72VDC 36-72VDC	3.3V @ 1.0A 5V @ 1.0A 12V @ 0.41A 15V @ 0.33A +12V @ 0.20A +15V @ 0.16A 3.3V @ 1.0A 5V @ 1.0A 12V @ 0.41A 15V @ 0.33A +12V @ 0.20A +15V @ 0.16A 3.3V @ 1.0A 5V @ 1.0A 12V @ 0.41A 15V @ 0.33A 12V @ 0.41A 15V @ 0.33A 12V @ 0.41A	-12V @ 0.20A -15V @ 0.16A -12V @ 0.20A -15V @ 0.16A	3.3W 5W 5W 5W 4.8W 4.8W 3.3W 5W 5W 4.8W 4.8W 3.3W 5W 5W 4.8W 4.8W	AA05E-012L-033S AA05E-012L-120S AA05E-012L-120S AA05E-012L-150S AA05E-012L-120D AA05E-012L-150D AA05E-024L-050S AA05E-024L-120S AA05E-024L-120S AA05E-024L-150D AA05E-024L-150D AA05E-048L-050S AA05E-048L-050S AA05E-048L-120S AA05E-048L-150S AA05E-048L-150S AA05E-048L-150S
	36-72VDC	+15V @ 0.16A	-15V @ 0.16A	4.8W	AA05E-048L-15

Pin Assignments

Single Output

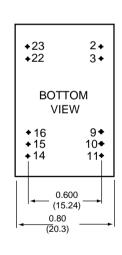
2 & 3: -Vin 22 & 23: +Vin 14: +Vout 16: Comm Remaining Pins NC

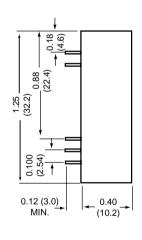
Dual Output

2 & 3: -Vin 22 & 23: +Vin 14: Output 1 9 & 16: Comm 11: Output 2 Remaining Pins NC

Notes:

- 1. 20 MHz bandwidth. An external 0.1uf ceramic capacitor is recommended to be placed from Vout to Comm.
- All specifications are typical at nominal line, full load, and 25° C unless otherwise noted.
- 3. All specifications subject to change without notice.
- 4. Mechanical drawings are for reference only.
- 5. Warranty: 1 yr





Case Material: Metal (5 sides) Weight: 0.5Oz/15Grams

