

AMPSS™
MICRO REGULATOR

AA10A Series
10W max
24V or 48V inputs
Single / Dual / Triple outputs



The AA10A DC-DC converter series is part of Astec's family of advanced modular power supply components. Featuring high reliability and convenient control functions, these modules are designed to reduce product development time and enhance system performance. The AA10A are medium power converters offering single, dual and triple outputs in a compact package. These units are ideally suited for Telecommunications, Industrial, Computer and Distributed Power system applications having a widely varying input voltage.



SPECIAL FEATURES

- 10 watts
- Singles, duals and triples
- Fixed frequency switching
- Isolated output
- Surface mount internal construction
- Six-sided shielding
- Wide 4:1 input range
- 1% line / 2% load regulation (main output)
- Small size 2.0 x 2.0 x 0.40 inches

ENVIRONMENTAL

Operating Temperature (ambient) -25 to +71°C (no derating)
Storage Temperature -25 to +105°C
Cooling Method convection

ELECTRICAL SPECIFICATIONS

Input

Input Range 9 to 36 VDC
20 to 72 VDC
Efficiency 80 - 85% typical
Input Ripple Current <100 mA p-p

Control

Voltage Adjust Input 90 to 110% V_o using external resistor or trim pot
Enable TTL compatible
on = 2.5 to 5.5VDC or open
circuit
off = 0 to 0.8VDC

Output

Voltage Tolerance (factory set-point) ±1% (output 1)
±3% (output 2 and output 3)
Line Regulation 1% (output 1)
4% (output 2 and output 3)
Load Regulation 2% (output 1)
6% (output 2 and output 3)
Noise/Ripple 75mV p-p (output 1)
100mV p-p (output 2 and output 3), under specified conditions
Output Voltage Adjust Range ±10% of nominal (single and dual output models only)
Output Voltage Protection zener clamp
Short Circuit power cycling

NOTES

All specifications are typical at nominal input and full load unless otherwise noted.

Specifications subject to change without notice.

Mechanical drawings for reference only.

