

AA15A

15 Watts

AA15A Series

Total Power	15 Watts
Input Voltages	24V or 48V
# of Outputs	Single, Dual, Triple



SPECIAL FEATURES

- Surface mount internal construction
- Six-sided shielding
- Wide 4:1 input range
- Small size 2.0" x 2.0" x 0.40"
- 5 year warranty

ENVIRONMENTAL

Operating ambient temperature range:
-25°C to +71°C (no derating)

Storage Temperature: -40°C to +105°C

Cooling Method: Convection

MTBF: 415,000 hours (MIL HDBK-217)

SAFETY

UL UL 1950 Recognized

ELECTRICAL SPECIFICATIONS

Input

Input range 9 to 36 VDC; 20 to 72 VDC

Input ripple current <100 mA p-p

Efficiency 80 - 85% typical

Enable On = 2.5 to 5.5Vdc or open circuit;
off = 0 to 0.8Vdc
Ref. to -Vin. TTL compatible

Output

Voltage tolerance $\pm 1\%$ (output 1); $\pm 3\%$ (output 2 and
output 3) (factory set-point)

Line regulation $\pm 0.5\%$ (output 1);
 $\pm 3\%$ (output 2 and output 3)

Load regulation $\pm 0.5\%$ (output 1);
 $\pm 3\%$ (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%, -4% max
(single and dual output models only)

Output voltage protection zener clamp

Short circuit power cycling, main only

Switching frequency 100kHz (fixed, typ)

Isolation

I/O isolation 500 VDC

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.

Minimum load 20%.

ORDERING INFORMATION

Input Voltage	Output 1 Voltage	Output 2 Voltage	Output 3 Voltage	Maximum Power	Model Number
9-36V	5V @ 3A			15W	AA15A-024L-050S
9-36V	12V @ 1.250A			15W	AA15A-024L-120S
9-36V	15V @ 1A			15W	AA15A-024L-150S
9-36V	12V @ 0.625A	-12V @ 0.625A		15W	AA15A-024L-120D
9-36V	15V @ 0.500A	-15V @ 0.500A		15W	AA15A-024L-150D
9-36V	5V @ 1.500A	12V @ 0.310A	-12V @ 0.310A	15W	AA15A-024L-050T120
9-36V	5V @ 1.500A	15V @ 0.250A	-15V @ 0.250A	15W	AA15A-024L-050T150
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20-72V	5V @ 3A			15W	AA15A-048L-050S
20-72V	12V @ 1.250A			15W	AA15A-048L-120S
20-72V	15V @ 1A			15W	AA15A-048L-150S
20-72V	12V @ 0.625A	-12V @ 0.625A		15W	AA15A-048L-120D
20-72V	15V @ 0.500A	-15V @ 0.500A		15W	AA15A-048L-150D
20-72V	5V @ 1.500A	12V @ 0.310A	-12V @ 0.310A	15W	AA15A-048L-050T120
20-72V	5V @ 1.500A	15V @ 0.250A	-15V @ 0.250A	15W	AA15A-048L-050T150

Please contact Astec for information on other output voltages, power ranges and configurations.

PIN ASSIGNMENTS

Single Output

- +Vin
- Vin
- No pin
- Control (Enable)
- No connect
- Output 1
- V out
- Trim

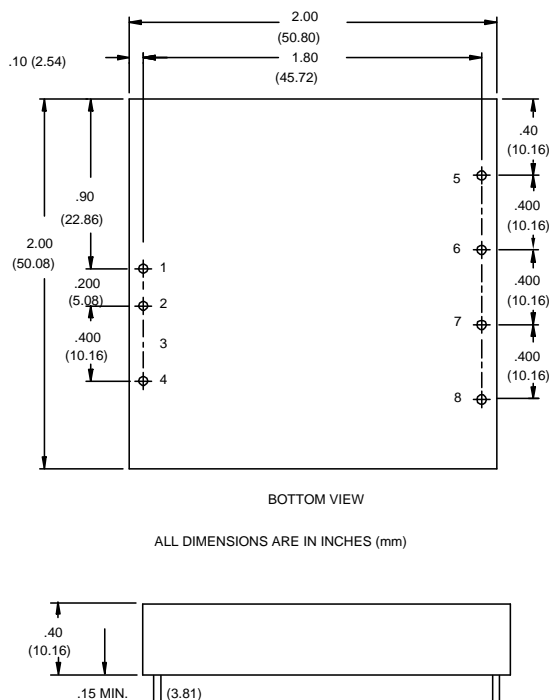
Dual Output

- +Vin
- Vin
- No pin
- Control (Enable)
- Output 1
- COM (O/P Common)
- Output 2
- Trim

Triple Output

- +Vin
- Vin
- No pin
- Control (Enable)
- Output 2
- Output 1
- COM (O/P Common)
- Output 3

DIMENSIONS



Note: Pins 0.040 in Dia x 0.15 in min

TRIM METHOD

