

# AA15A

## 15 WATTS

### AA15ASeries

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 File # E169640  
Recognized



勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-34970699  
勝特力电子(深圳) 86-755-83298787  
Http://www.100y.com.tw

### 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 ..... TTL compatible on = 2.5 to 5.5VDC or  
open circuit; off = 0 to 0.8VDC

#### Output

Voltage Tolerance ..... ±1% (output 1); ±3% (output 2 and  
output 3) (factory set-point)

Line Regulation ..... 0.25% (output 1);  
2% (output 2 and output 3)

Load Regulation ..... 0.25% (output 1);  
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)

Control Voltage Adjust ..... 90 to 110%  $V_o$   
using external resistor or trim pot

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
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

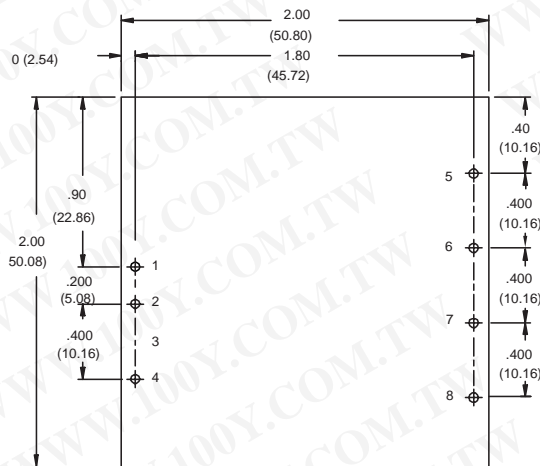
### Dual Output

- +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



BOTTOM VIEW

ALL DIMENSIONS ARE IN INCHES (mm)



Note: Pins 0.040 in Dia x 0.15 in min

## TRIM METHOD

