

# AA30A

## 30 WATTS

### AA30A Series

Total Power	30 Watts
Input Voltages	24V or 48V
# of Outputs	Single, Dual



### SPECIAL FEATURES

- High Efficiency - 78% Typical
- 400 KHz fixed frequency
- Low output ripple and noise
- Isolated outputs (500 Vdc)
- Wide input voltage range
- TTL compatible enable control
- Adjustable output voltage
- Short circuit protection
- Low profile PCB mounting

### ENVIRONMENTAL

Operating Temperature (case): 0°C to +85°C

Storage Temperature: -40°C to +85°C

Cooling Method: Convection

MTBF: > 1 million hours (25°C ambient)

### SAFETY

UL	UL 1950	E182206
CSA	CSA22.2-950	LR53982

### ELECTRICAL SPECIFICATIONS

#### Input

Input Range ..... 19 to 35 VDC; 35 to 63 VDC

Efficiency ..... 78% typical

Input Ripple Current ..... <100 mA p-p; (35 - 63V input models)  
<200 mA p-p; (19 - 35V input models)

Input Surge Voltage ..... 75 VDC (1 Sec.)

#### Control

Voltage Adjust ..... 90 to 110%  $V_o$

Enable ..... TTL compatible  
(high or open to enable)

#### Isolation

Input to Output ..... 500 VDC

#### Output

Voltage Set Point Accuracy ...  $\pm 2\%$

Line/Load Regulation\* .....  $\pm 2\%$  (output 1);  $\pm 10\%$  (output 2)

Noise/Ripple ..... 2% typical

Output Voltage  
Adjust Range .....  $\pm 10\%$  of nominal  
(output 2 tracks output 1)

Transient Response ..... 5% typical deviation with 400 $\mu$ s  
recovery; (25-75% full load)

Current Limit ..... 3A typical (15V output);  
4A typical ( $\pm 12$ V output)

Short Circuit Protection ..... Continuous, Auto-restart

### NOTES

\* Minimum load 10% of full load.

All specifications are typical at nominal input, full load, 25°C ambient unless otherwise noted.

Specifications subject to change without notice.

## ORDERING INFORMATION

Input Voltage	Output 1 Voltage	Output 2 Voltage	Maximum Power	Model Number
19-35V	15V @ 2A	-	30W	AA30A-024L-150S
19-35V	12V @ 2.5A	-12V @ 2A	30W	AA30A-024L-120D
35-63V	15V @ 2A	-	30W	AA30A-048L-150S
35-63V	12V @ 2.5A	-12V @ 2A	30W	AA30A-048L-120D

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

