

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 μ s
recovery; (25-75% full load)

Current Limit 3A typical (15V output);
4A typical (± 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.

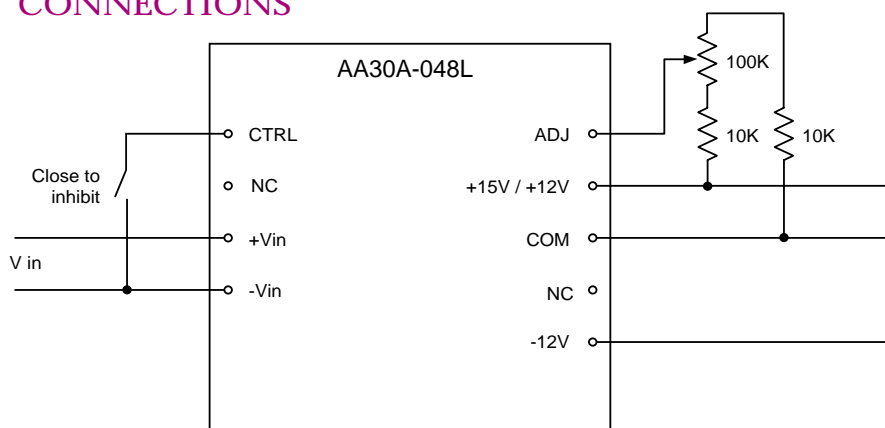
Specifications subject to change without notice.

ORDERING INFORMATION

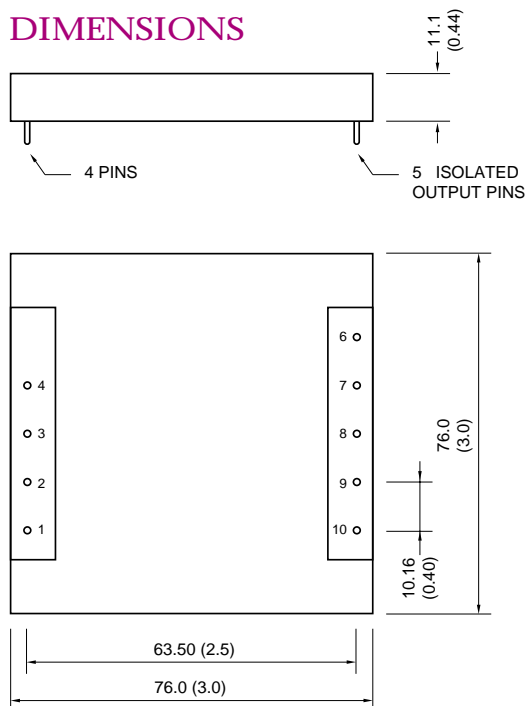
Input Voltage	Output 1 Voltage	Output 2 Voltage	Maximum Power	Model Number
19-35V	15V @ 2A	-	30W	AA30A-024L-150S
19-35V	12V @ 2.5A	-12V @ 2A	30W	AA30A-024L-120D
35-63V	15V @ 2A	-	30W	AA30A-048L-150S
35-63V	12V @ 2.5A	-12V @ 2A	30W	AA30A-048L-120D

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

CONNECTIONS



DIMENSIONS



Viewed from pins side. Dimensions in mm (inches)

PIN ASSIGNMENTS

19-35V Input Single Output

- CTRL (Enable)
- NC (Reserved)
- Vin
- +Vin
- NC (Reserved)
- NC (Reserved)
- COM (O/P Common)
- +15V Output
- ADJ (O/P V Adjust)

35-63V Input Single Output

- CTRL (Enable)
- NC (Reserved)
- +Vin
- Vin
- NC (Reserved)
- NC (Reserved)
- COM (O/P Common)
- +15V Output
- ADJ (O/P V Adjust)

19-35V Input Dual Output

- CTRL (Enable)
- NC (Reserved)
- Vin
- +Vin
- 12V Output
- NC (Reserved)
- COM (O/P Common)
- +12V Output
- ADJ (O/P V Adjust)

35-63V Input Dual Output

- CTRL (Enable)
- NC (Reserved)
- +Vin
- Vin
- 12V Output
- NC (Reserved)
- COM (O/P Common)
- +12V Output
- ADJ (O/P V Adjust)