

AA25A

25 WATTS



SPECIAL FEATURES

- High Efficiency - 78% Typical
- 400 KHz fixed frequency
- Low output ripple and noise
- 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	UL1950	E182206
CSA	CSA 22.2-950	LR53982C

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% Vo

Enable TTL compatible (high or open to enable)

Isolation

Input to Output 500 VDC

Output

Voltage Set Point Accuracy ... ±2%

Line/Load Regulation* ±2% (output 1); ±10% (output 2 and output 3)

Noise/Ripple 100mV typical (5V output); 2% typical
(±12 or ±15V output)

Output Voltage Adjust Range ±10% of nominal (output 2 and output 3 tracks
output 1)

Transient Response 5% typical deviation with 400µs recovery
(25-75% full load)

Current Limit 7A typical (5V output); 3.5A typical
(±12V output); 3.0A typical (±15V 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.

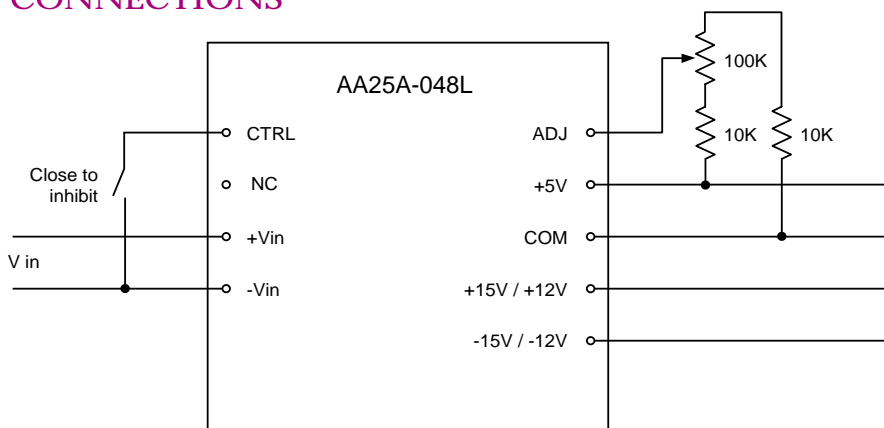
Specifications subject to change without notice.

ORDERING INFORMATION

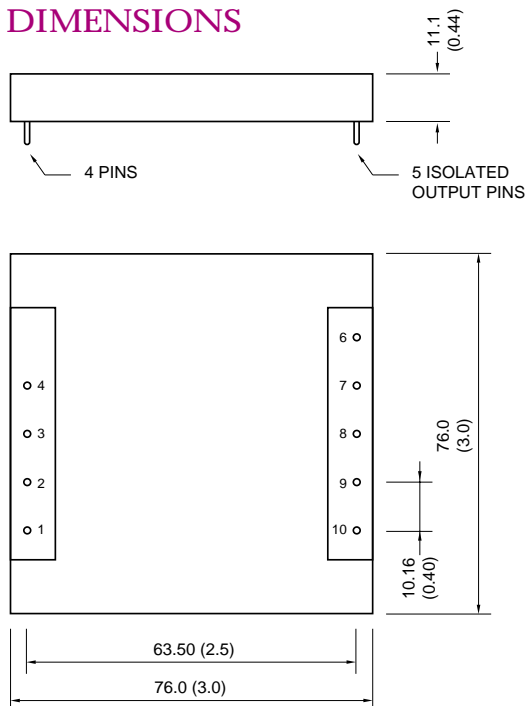
Input Voltage	Output 1 Voltage	Output 2 Voltage	Output3 Voltage	Maximum Power	Model Number
19-35V	5V @ 5A	12V @ 1A	-12V @1A	25W	AA25A-024L-050T120
19-35V	5V @ 5A	15V @ 0.8A	-15V @ 0.8A	25W	AA25A-024L-050T150
35-63V	5V @ 5A	12V @ 1A	-12V @ 1A	25W	AA25A-048L-050T120
35-63V	5V @ 5A	15V @ 0.8A	-15V @ 0.8A	25W	AA25A-048L-050T150

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 Triple Output

- CTRL (Enable)
- NC (Reserved)
- Vin
- +Vin
- 12V / -15V Output
- +12V / +15V Output
- COM (O/P Common)
- +5V Output
- ADJ (O/P V Adjust)

35-63V Input Triple Output

- CTRL (Enable)
- NC (Reserved)
- +Vin
- Vin
- 12V / -15V Output
- +12V / +15V Output
- COM (O/P Common)
- +5V Output
- ADJ (O/P V Adjust)