



**THE DATASHEET OF
AA25N-048L-033S**



25 Watts

AA25N

Total Power: 25 Watts
Input Voltages: 24V or 48V
No. of Outputs: Single, Dual, Triple



Special Features

- Ideal for telecom/networking applications
- High efficiency
- Unencapsulated 2.0" x 2.0" x 0.50" package.
- Integral heat spreader available
- 100°C Baseplate temperature
- Enable (on/off)
- Thermal protection
- 350kHz Switching frequency
- Under voltage lockout

Environmental

Operation case temperature range: -40°C to +100°C

Storage temperature: -40°C to +125°C

Humidity: 5% to 100%

Safety

UL UL1950
CAN CAN22.2-950
TUV EN60950

Electrical Specs

Input

Input range 18-36 Vdc (24 Vdc nominal)
 36 - 75Vdc (48Vdc nominal)
 Input capacitance 2mF typical
 Input reverse voltage protection Fuse recommended
 Input surge voltage 100V for 100mS (048L)
 50V for 100mS (024L)
 36V for 100mS (012L)
 Input reflected ripple <10mA (P-P) See Note 2
 Undervoltage lockout Vin<32V (-048L ONLY)
 Efficiency 82% typical

Output

Voltage tolerance Main Output ±1.0%
 Aux Output ±3.0%
 Dual Output ±2.0%
 Line regulation Main Output ±0.1%
 Aux Output ±0.5%
 Dual Output ±0.2%
 Load regulation Main Output ±0.75%
 Aux Output ±3.0%
 Dual Output ±0.5%
 (10% to 100% load) Note 6.
 Noise/ripple 50mV P-P, Singles
 100mVp-p, Dual, Triple
 Short circuit protection Continuous power cycle
 Overvoltage protection 120% of V_O, Typ
 Transient response 2% V_O typ; recovery <500msec typ
 (25% step load change to within 1%V_O)
 Temperature coefficient ±0.2%/°C
 Switching frequency 350kHz

Control

Enable on =2.5 to 5.5Vdc or open circuit
 off = 0 to 0.8Vdc
 Ref. to -Vin. TTL compatible
 Input current (enable OFF) <10ma
 Output trim Single output models
 Thermal shutdown 110°C Baseplate temperature (typ)
 Auto reset

Isolation

I/O isolation 1500Vdc
 Isolation resistance 15 x 10⁸ ohms

AMERICAS

5810 Van Allen Way
 Carlsbad, CA 92008
 Telephone: 760-930-4600
 Facsimile: 760-930-0698

EUROPE

Astec House, Waterfront Business Park
 Merry Hill, Dudley
 West Midlands, DY5 1LX, UK
 Telephone: 44 (1384) 842-211
 Facsimile: 44 (1384) 843-355

ASIA

Units 2111-2116, Level 21
 Tower1, Metroplaza
 223, Hing Fong Road
 Fwai Fong, New Territories
 Hong Kong
 Telephone: 852-2437-9662
 Facsimile: 852-2402-4426



AA25N

Ordering Information

Input VDC	Output 1 Voltage	Output 2 Voltage	Output 3 Voltage	Output Power	Model Number
18-36	12V @ 2.08A			25W	AA25N-024L-120S
18-36	15V @ 0.83A	-15V @ 0.83A		25W	AA25N-024L-150D
36-75	3.3V @ 6A			19.8W	AA25N-048L-033S
36-75	5V @ 5A			25W	AA25N-048L-050S
36-75	5V @ 5A	3.3V @ 6A		25W	AA25N-048L-050D033
36-75	5V @ 2.5A	12V @ 0.52A	-12V @ 0.52A	25W	AA25N-048L-050T120

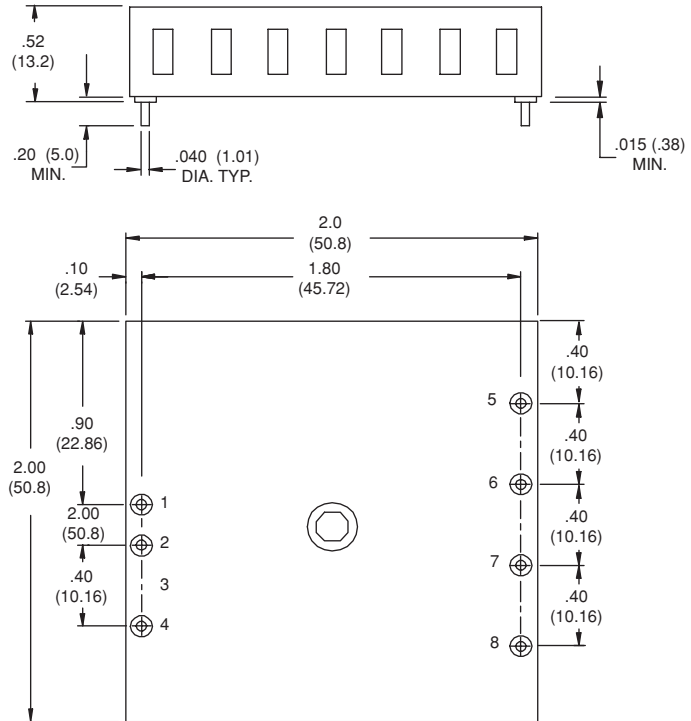
Notes:
 Max output power not to exceed 25W total. The sum of output currents not to exceed 6 Amps.
 Any output loading ratio within the maximum specified limits is possible.

Pin Assignments

Single Output	Dual Output	Triple Output
1. +Vin	1. +Vin	1. +Vin
2. -Vin	2. -Vin	2. -Vin
3. No Pin	3. No Pin	3. No Pin
4. Enable	4. Enable	4. Enable
5. No Pin	5. V1 Out	5. V2 Out
6. V1 Out	6. Comm	6. V1 Out
7. Comm	7. V2 Out	7. Comm
8. Trim	8. N/C	8. V3 Out

Notes:

- 20 MHz bandwidth. An external 2.2mf ceramic capacitor is recommended to be placed from +V out to -V out.
- 12V and 24V Input models require external capacitor connected between +V in and -V in to meet FCC class A and ETS300-386-1 requirements for conducted noise. Consult Factory for filtering information to meet FCC class B, VDE or EIC specifications.
- All specifications are typical at nominal line, full load, and 25° C unless otherwise noted.
- All specifications subject to change without notice. Mechanical drawings are for reference only.
- Please refer to the Technical Reference Notes for more information.
- Balanced loads on dual and Aux output voltage.
- Warranty: 1 yr



Case material: Metal base/cover
 Weight: 2.5 Oz / 68Gr.




Astec Conventional Power

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