

Astec Conventional Power

25 Watts

AEV



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

Electrical Specs

Input

Input range 18-36 Vdc (24 Vdc nominal)
 36 - 72Vdc (48Vdc nominal)

Input reverse voltage protection Fuse recommended
 Input surge voltage 100V for 100mS (48V)
 50V for 100mS (24V)

Undervoltage lockout Vin<30-36V (48V)
 Vin<14-18V (24V)
 Efficiency 83% typical (5Vout)

Output

Voltage tolerance $\pm 1.0\%$

Line regulation $\pm 0.1\%$

Load regulation $\pm 0.5\%$

Noise/ripple 75mV P-P

Short circuit protection Continuous power cycle
 Overvoltage protection 36V to 42V (24Vin)
 72V to 82V (48Vin)
 Transient response 4% Vo typ; recovery <200msec typ
 (25% step load change)

Temperature coefficient $\pm 0.02\%Vo/^{\circ}C$
 Switching frequency 330kHz

Control

Enable on = >7.0Vdc
 off = >3.5Vdc
 See TRN
 Enable current 0.6ma max.
 Output trim 90% to 110% Vo

Isolation

I/O isolation 500Vdc

Special Features

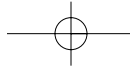
- Ideal for telecom/networking applications
- Standard Pinout - Low Profile
- Unencapsulated 2.0" x 2.5" x 0.33" package.
- 90°C Baseplate temperature
- Enable (on/off)
- 330kHz Switching frequency
- Under voltage lockout, OVP, OCP

Environmental

Operation case temperature range: -25°C to +90°C
 Storage temperature: -40°C to +105°C
 MTBF > 2 Million Hours (Bellcore TR332)

Safety

UL UL1950
 CAN CAN22.2-950
 TUV EN60950
 CE CE Mark



AMERICAS

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EUROPE

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ASIA

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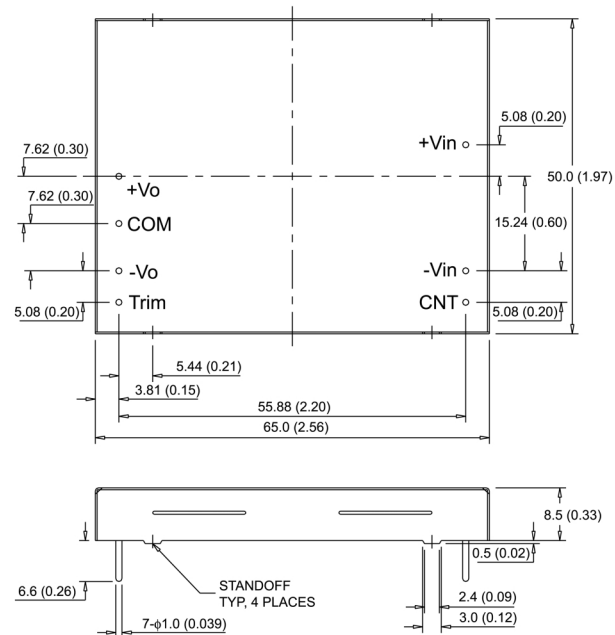
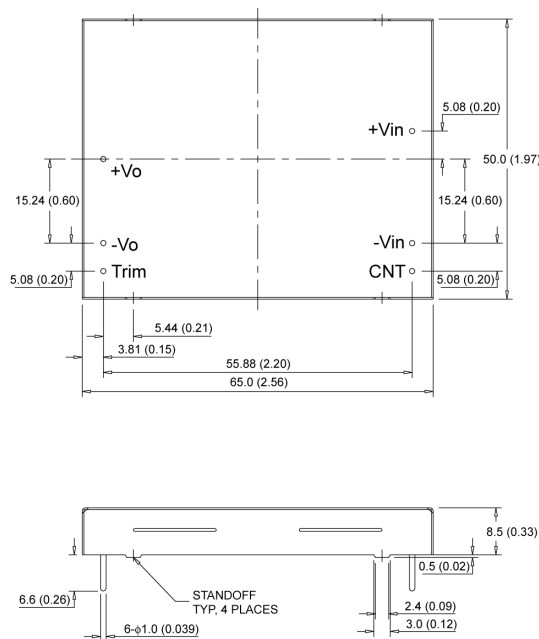


AEV

Ordering Information

Input VDC	Output 1 Voltage	Output 2 Voltage	Efficiency	Model Number
18-36 V	3.3V @ 5.0A		80%	AEV05F24
18-36 V	5.0V @ 4.0A		83%	AEV04A24
18-36 V	12.0V @ 2.1A		85%	AEV02B24
18-36 V	15.0V @ 1.7A		86%	AEV02C24
36-72 V	3.3V @ 5.0A		80%	AEV05F48
36-72 V	5.0V @ 4.0A		83%	AEV04A48
36-72 V	6.0V @ 4.1A		86%	AEV04N48
36-72 V	12.0V @ 2.1A		86%	AEV02B48
36-72 V	15.0V @ 1.7A		86%	AEV02C48
18-36 V	+5.0V @ 2.0A	-5.0V @ 2.0A	83%	AEV02AA24
18-36 V	+12.0V @ 1.05A	-12.0V @ 1.05A	86%	AEV01BB24
18-36 V	+15.0V @ 0.85A	-15.0V @ 0.85A	86%	AEV01CC24
36-72 V	+5.0V @ 2.0A	-5.0V @ 2.0A	83%	AEV01AA48
36-72 V	+12.0V @ 1.05A	-12.0V @ 1.05A	86%	AEV01BB48
36-72 V	+15.0V @ 0.85A	-15.0V @ 0.85A	86%	AEV01CC48

Single output



Notes:

- 20 MHz bandwidth. An external 2.2mf ceramic capacitor is recommended to be placed from +V out to -V out.
- Consult Technical Reference Notes for Recommended Input/Output Filtering
- 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.