

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 $V_{in} < 30-36V$ (48V)
 $V_{in} < 14-18V$ (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% V_o typ; recovery <200msec typ
(25% step load change)

Temperature coefficient $\pm 0.02\% V_o / ^\circ C$
Switching frequency 330kHz

Control

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

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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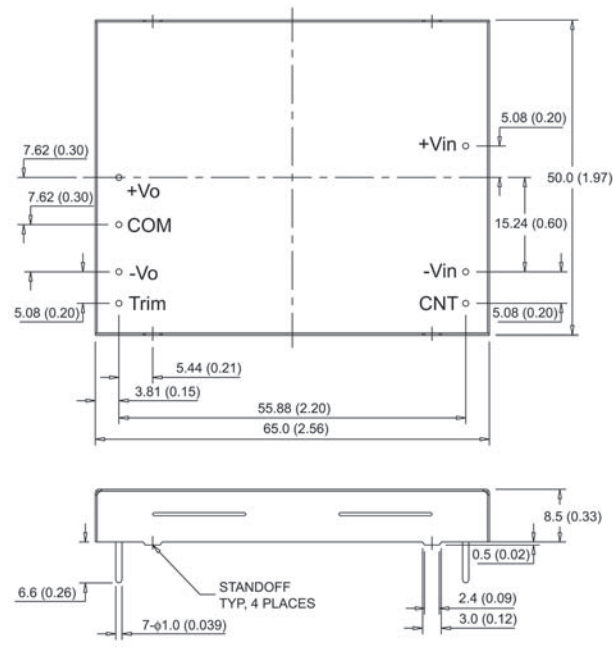
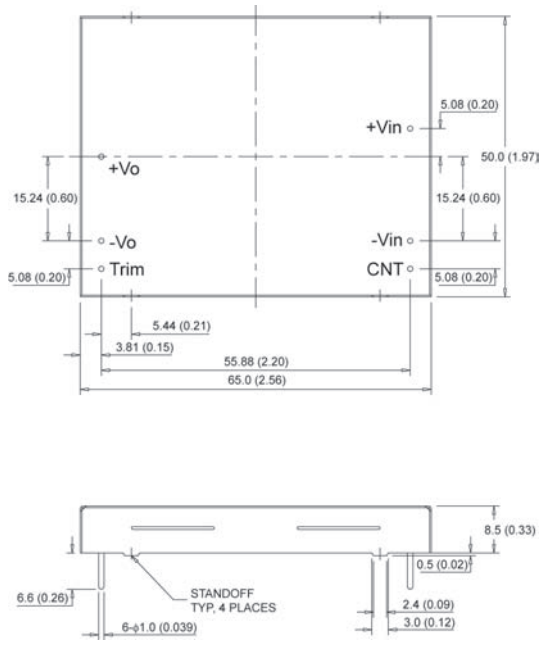
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Ordering Information

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

EOL

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.

Mouser Electronics

Authorized Distributor

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Emerson Network Power:

[AEV01BB24](#) [AEV01BB48](#) [AEV01CC24](#) [AEV01CC48](#) [AEV02AA24](#) [AEV02AA48](#) [AEV02B24](#) [AEV02B48](#)
[AEV02C24](#) [AEV02C48](#) [AEV04A24](#) [AEV04A48](#) [AEV04N48](#) [AEV05F24](#) [AEV05F48](#)