



# 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

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

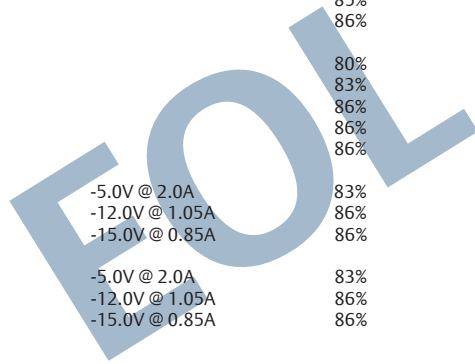
14/F, Lu Plaza  
2 Wing Yip Street  
Kwun Tong, Kowloon  
Hong Kong  
Telephone: 852-2176-3333  
Facsimile: 852-2176-3888



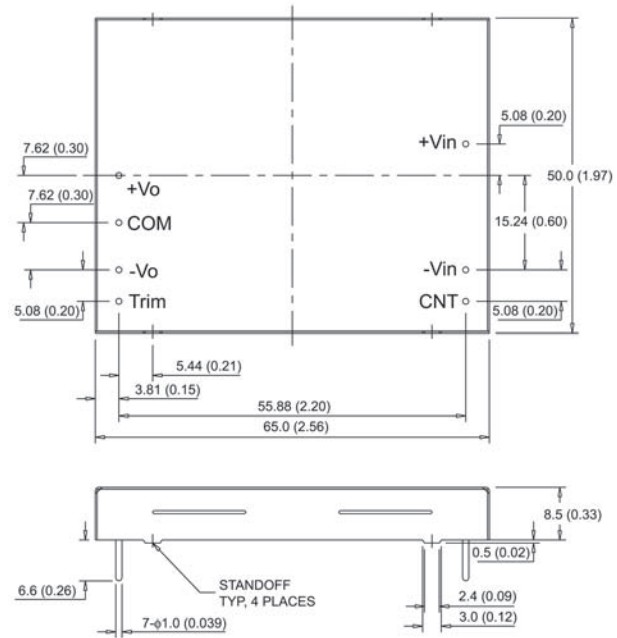
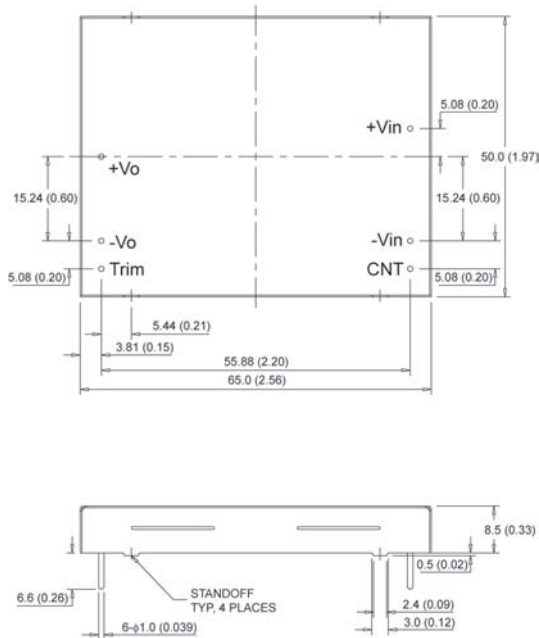
AEV

## 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)



### 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.

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View AEV04A24 on WIN SOURCE](#)
-  [Artesyn Embedded Technologies Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management