25 Watts
AEV

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



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

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	±1.0%
Line regulation	±0.1%
Load regulation	±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	±0.02%Vo/°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

EOL

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

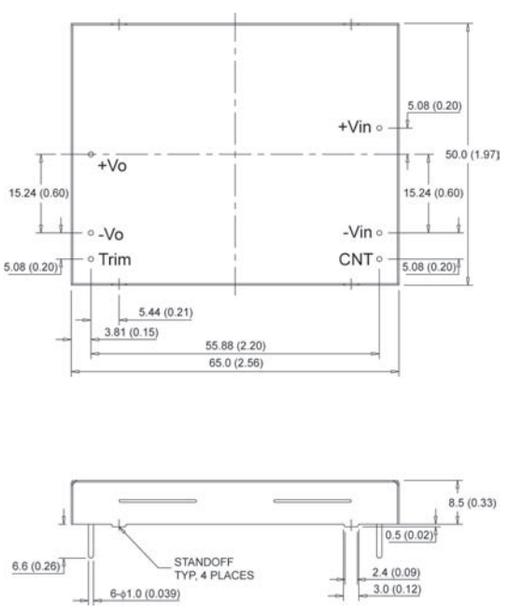
14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
Telephone: 852-2176-3333
Facsimile: 852-2176-3888

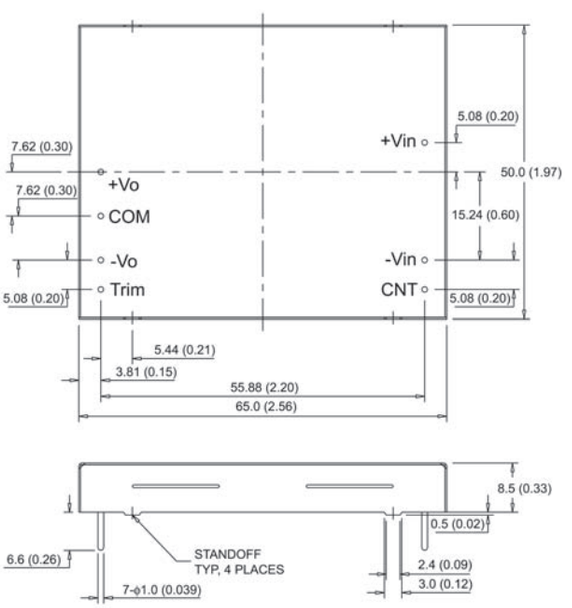
Ordering Information

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:

1. 20 MHz bandwidth. An external 2.2mf ceramic capacitor is recommended to be placed from +V out to -V out.
2. Consult Technical Reference Notes for Recommended Input/Output Filtering
3. All specifications are typical at nominal line, full load, and 25° C unless otherwise noted.
4. All specifications subject to change without notice. Mechanical drawings are for reference only.