Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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	±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

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

ASTEC

ASTEC

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
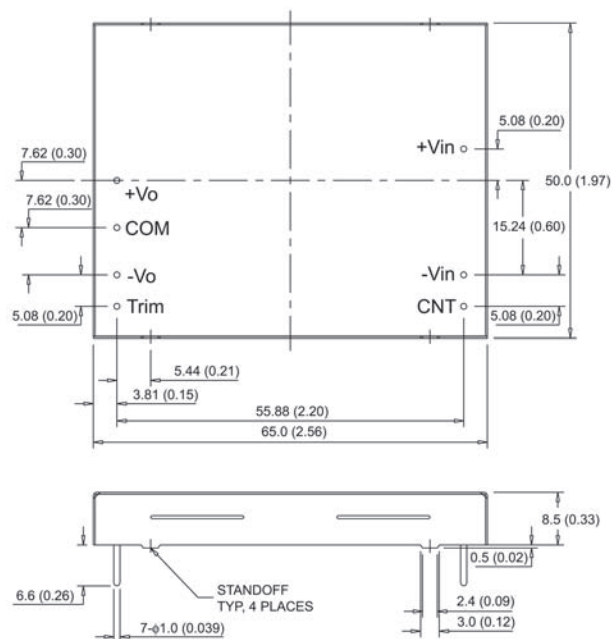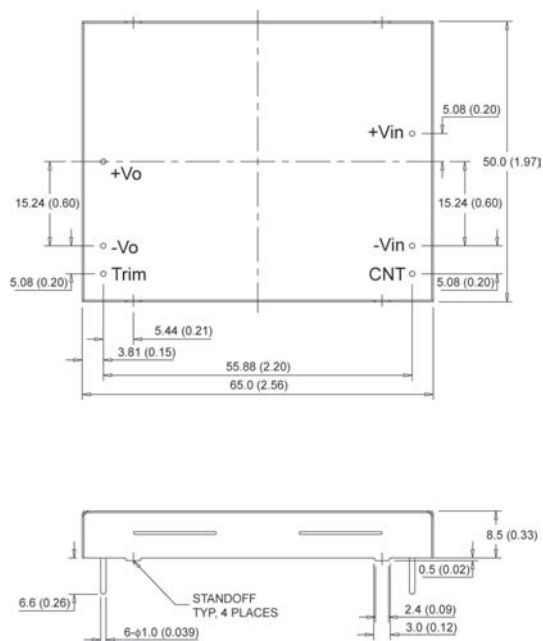
Notes:

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.

EMERSON
Network Power