imall

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

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120Watts AEO/ALO40

Total Power: Input Voltages: No. of Outputs: 120 Watts 48V Single

High Efficiency



Special Features

- 2.3" x 0.9" Industry Standard 8th brick outline
- Baseplate or Openframe construction
- Low Ripple and Noise
- Regulation to zero load
- High Capacitive Load start-up
- Fixed Frequency Switching for EMI predictability
- Industry Standard features: Input UVLO with hysteresis, Enable, OVP, OCP, OTP, Output VoltageTrim, Differential Remote Sense
- Meets Basic Insulation
- EU Directive 2002/95/EC compliant for RoHS

Environmental

Operating Ambient Temperature

Openframe: -40°C to +85°C Ambient Baseplate: -40°C to +100°C Case Storage temperature: -55°C to +125°C MTBF: > 1 Million Hrs

Safety

UL, cUL 60950-1 Recognized TUV EN60950-1 Licensed

Electrical Specs

Input Input Range Input Surge

Input UVLO

Efficiency²

Output

Line / Load Regulation Load Current Noise/Ripple¹ Transient Response

Over Voltage Protection Over Current Protection Over Temperature Protection Switching Frequency Isolation Voltage

Control

Output Voltage Trim Enable 36 to 75 VDC 100V /100ms 33 - 36 V (UVLO ON) 31 - 34 V (UVLO OFF) 93% @ 5 V (typical)

< 0.1% V_O (typical) Up to 40A for $Vo \le 1.8V$ $30mV_{PK-PK}$ (typical) 2% typical deviation (50% to 75% Step Load) < 100µs settling time (typ) 130% V_O Typ (autorecovery) 130% $I_{O,max}$ Typ (autorecovery) 115°C average PCB temperature (autorecovery) Fixed Frequency 1500Vdc

±10% V_{O,NOM} TTL compatible (Positive or Negative Logic)



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ASTE

Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency ²	Model Number
36V to 75V	12.0V	10A	93.0%	A(X)O10B48(N) - (6)(S)(L)
36V to 75V	5.0V	20A	92.0%	A(X)O20A48(N) - (6)(S)(L)
36V to 75V	3.3V	30A	91.0%	A X)O30F48 (N) - (6)(S)(L)
36V to 75V	2.5V	35A	89.5%	A(X)O35G48(N) - (6)(S)(L)
36V to 75V	1.8V	40A	88.0%	A(X)O40Y48(N) - (6)(S)(L)
36V to 75V	1.5V	40A	86.0%	A(X)O40M48(N) - (6)(S)(L)
36V to 75V	1.2V	40A	85.0%	A(X)O40K48(N) - (6)(S)(L)

OPTIONS:

(X) : "L" = Open Frame / Low Profile

"E" = Baseplate Construction

(N) : "N" = designates Negative Logic Enable (default is Positive Enable with no suffix "N" required)

(6) : "-6" = 3.7mm nominal pin length (default is 5mm nominal pin length with no suffix "-6" required)

(S) : "-S" = Surface Mount Termination (default is Through Hole Termination with no suffix "-S" required)⁷

(L) : "L" = RoHS compliant (RoHS 6) / "Blank" - RoHS compliant with Lead (PB) in solder exemption (RoHS 5)

Pin Assignment

Single Output

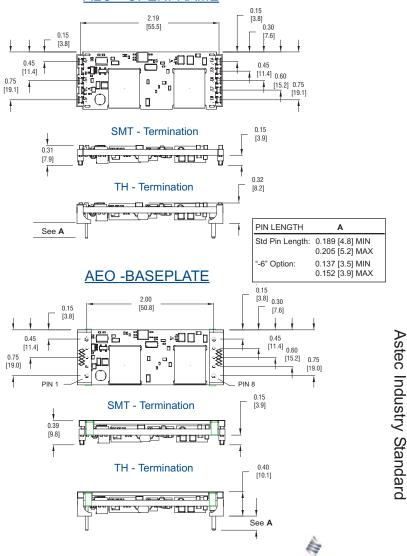
1. +Vin

- 2. Enable (On/Off)
- 3. -Vin
- 4. V_{OUT}
- 5. -Sense
- 6. Trim
- 7. +Sense
- 8. +V_{OUT}

Notes:

- 1. Measured at 20 MHz bandwidth with external 10 μ F tant. capacitor in parallel with 0.1 μ F ceramic capacitor connected across +Vout and -Vout; 220 μ F e-cap or equivalent connected across +Vin and -Vin.
- 2. Efficiency measurements are typical values taken at full load, nominal line and $T_{\rm A}$ = 25°C.
- 3. All specifications are typical at nominal line, full load and $T_A = 25^{\circ}C$ unless otherwise noted.
- 4. All specifications subject to change without notice.
- 5. Mechanical drawings are for reference only. Dimensions are in inches [mm]. Pin placement tolerance \pm 0.005 [0.127]. Mechanical Tolerance \pm 0.02 [0.5], recommended surface mount pads (min: 0.080 x 0.112 [2.03 x 2.84] / max: 0092 x 0.124 [2.34 x 3.15]); through hole pin diameter (Pins 4 & 8) $\emptyset = 0.062$ [1.57], others $\emptyset = 0.04$ [1.0] (6X).
- 6. Technical Reference Notes should be consulted for detailed information when available.
- 7. AEOxxxxx-Sx series (surface mount termination with baseplate) are not reflow compatible.
- 8. Warranty 2 yrs.

Astec reserves the right to make changes to the information contained herein without notice and assumes no liability as a result of its use and application. (REV 02: MARCH 7, 2007)



EMERSON

Network Power

ALO - OPENFRAME