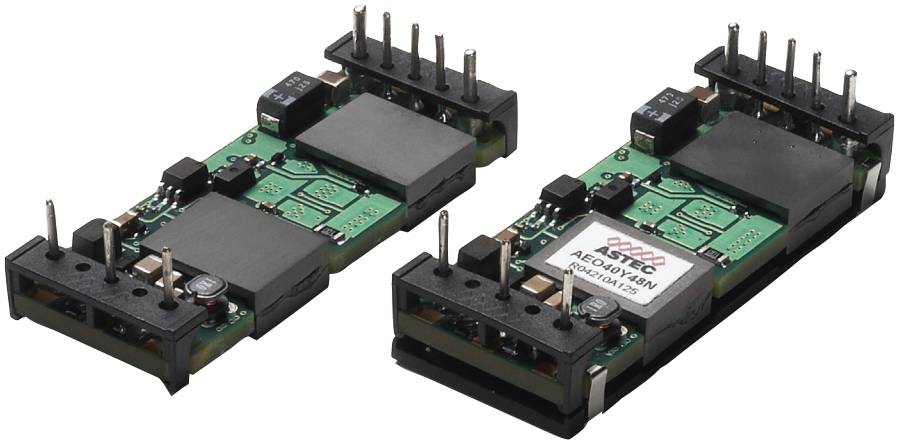
AEO/ALO Series

66/120 Watts

Total Power: Up to 120 Watts
Input Voltage: 48V
# of Outputs: Single



RoHS 2002/95/EC

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

Safety

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

Electrical Specifications

Input	
Input range:	36 - 75VDC
Input surge:	100V / 100ms
Input UVLO:	33-36 V (UVLO ON) 31-31 V (UVLO OFF)
Efficiency[2]:	93% @ 5V (typical)
Output	
Line / Load Regulation:	<0.1% v_o (typical)
Load Current:	Up to 25A for Vo ≤ 1.8V
Noise / Ripple[1]:	20mV_{PK-PK} (typical for Vo ≤ 2.5V)
Transient Response:	2% typical deviation (50% to 75% Step Load) <100us settling time (typ)
Over Voltage Protection:	130% V_o typ (autorecovery)
Over Current Protection:	130% $I_{o,max}$ typ (autorecovery)
Over Temperature Protection:	115°C average PCB temperature (autorecovery)
Switching Frequency:	Fixed Frequency
Isolation Voltage:	1500Vdc
Control	
Output Voltage Trim:	±10% $V_{O,NOM}$
Enable:	TTL compatible (Positive or Negative logic)

ASTEC

EMERSON Network Power

Environmental Specifications

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 hours

Ordering Information

120W Series				
Output Voltage	**Output Voltage**	**Efficiency**	**Model Number**	
12.0 V	10.0 A	93.0%	ALO10B48N-L	
5.0 V	20.0 A	92.0%	ALO20A48N-L	
3.3 V	30.0 A	91.0%	ALO30F48N-L	
2.5 V	35.0 A	89.5%	ALO35G48N-L	Not for New Designs - Please check LES A Series
1.8 V	40.0 A	88.0%	ALO40Y48N-L	
1.5 V	40.0 A	86.0%	ALO40M48N-L	
1.2 V	40.0 A	85.0%	ALO40K48N-L	Not for New Designs - Please check LES A Series
66W Series				
Output Voltage	**Output Voltage**	**Efficiency**	**Model Number**	Not for New Designs - Please check LES B Series
12.0 V	4.0 A	93.0%	ALO4B48N-L	Not for New Designs - Please check LES B Series
5.0 V	12.0 A	92.0%	ALO12A48N-L	Not for New Designs - Please check LES B Series
3.3 V	20.0 A	91.0%	ALO20F48N-L	Not for New Designs - Please check LES B Series
2.5 V	20.0 A	90.0%	ALO20G48N-L	Not for New Designs - Please check LES B Series
1.8 V	25.0 A	88.5%	ALO25Y48N-L	Not for New Designs - Please check LES B Series
1.5 V	25.0 A	86.5%	ALO25M48N-L	Not for New Designs - Please check LES B Series
1.2 V	25.0 A	85.5%	ALO25K48N-L	Not for New Designs - Please check LES B Series

Options

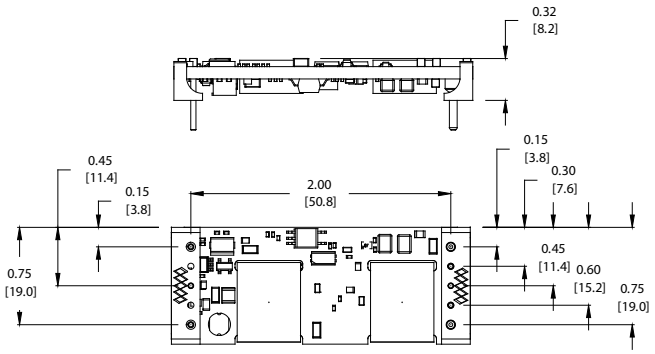
	Construction	Size	Output Current	Output Voltage	Input Voltage	Remote ON/OFF Logic		PIN Length O/P Termination	RoHS Designation
A	**L**	**O**	**10**	**B**	**48**	**N**	**-**	**6**	**L**
	L = Low Profile; Openframe E = Baseplate	O = 8th Brick	10 = 10 Amps 20 = 20 Amps 30 = 30 Amps 35 = 35 Amps 40 = 40 Amps	B = 12.0V A = 5.0V F = 3.3V G = 2.5V Y = 1.8V M = 1.5V K = 1.2V	48 = 48V (36-75 V Range)	N = Negative Blank = Positive		Through Hole: 6 = 3.6mm Blank = 5mm S = Surface Mount* *Available for Low Profile; Openframe (ALO) Version only	L = RoHS 6/6 Blank = RoHS 5/6

Mechanical Drawing

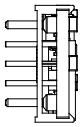
OPEN FRAME THROUGH HOLE

ALO SERIES THRU HOLE PIN

PIN SIDE DOWN



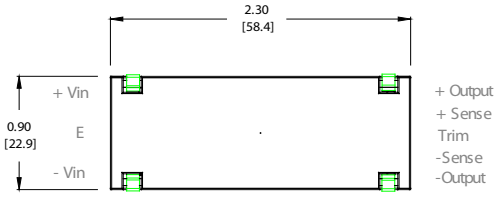
PIN SIDE UP



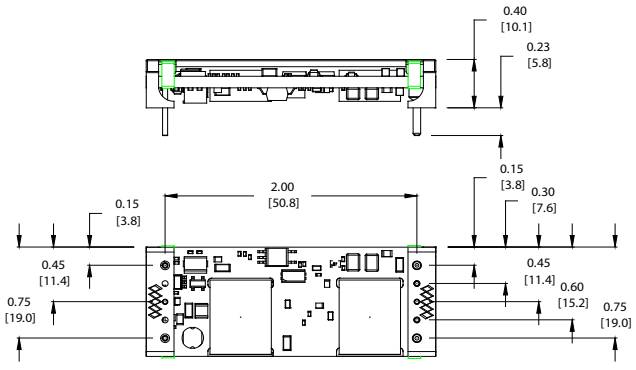
SIDE VIEW

BASEPLATE THROUGH HOLE

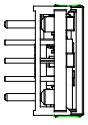
AEO SERIES THRU HOLE PIN



PIN SIDE DOWN



PIN SIDE UP



SIDE VIEW

Pin Assignments

Single Output
1. +Vin
2. Enable (On/off)
3. -Vin
4. -VOUT
5. -Sense
6. Trim
7. +Sense
8. +VOUT

Notes:
1. Measured at 20 MHz bandwidth with external 10 µF tant. capacitor in parallel with 0.1 µF ceramic capacitor connected across +Vout and -Vout; 220 µF e-cap or equivalent connected across +Vin and -Vin.
2. Efficiency measurements are typical values taken at full load, nominal line and T_A = 25°C
3. All specifications are typical at nominal line, full load and T_A = 25°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 ± 0.005 [0.127]. Mechanical Tolerance ± 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) ϕ = 0.062 [1.57], others ϕ = 0.04 [1.0] (6X).
6. Technical Reference Notes should be consulted for detailed information when available.
8. Warranty 2yrs.

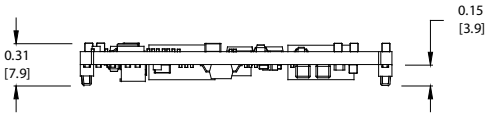
PIN LENGTH	A
Std Pin Length:	0.189 [4.8] MIN 0.205 [5.2] MAX
"-6" Option:	0.137 [3.5] MIN 0.152 [3.9] MAX

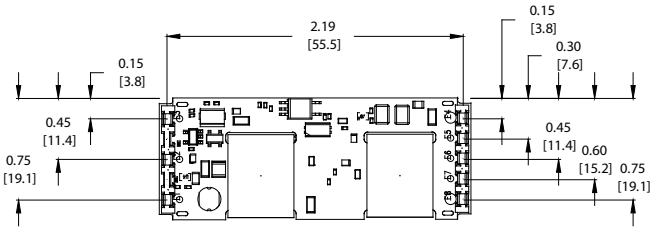
Mechanical Drawing

OPEN FRAME SURFACE MOUNT

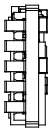
ALO OPEN FRAME SMT PIN

PIN SIDE DOWN





PIN SIDE UP



SIDE VIEW

Americas
5810 Van Allen Way
Carlsbad, CA 92008
USA
Telephone: +1 760 930 4600
Facsimile: +1 760 930 0698

Europe (UK)
Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
United Kingdom
Telephone: +44 (0) 1384 842 211
Facsimile: +44 (0) 1384 843 355

Asia (HK)
14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
Telephone: +852 2176 3333
Facsimile: +852 2176 3888

For global contact, visit:
www.powerconversion.com

techsupport.embeddedpower@emerson.com

Emerson Network Power.
The global leader in enabling business-critical continuity.

- AC Power
- Connectivity
- DC Power
- Embedded Computing
- **Embedded Power**
- Monitoring
- Outside Plant
- Power Switching & Controls
- Precision Cooling
- Racks & Integrated Cabinets
- Services
- Surge Protection

EmersonNetworkPower.com

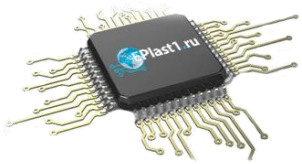
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.