Embedded Power for **Business-Critical Continuity** 

## ALQ/AEQ20B48 20 Amps

**Total Power:** Input Voltage: 48V # of Outputs:

240 Watts 1

### **Special Features**

- Quarter brick industry standard outline
- Baseplate or openframe low profile construction
- Industry Standard features : Input UVLO with hysteresis, Enable, OVP, OCP, OTP, output Voltage Trim, Differential Remote Sense
- Fixed switching frequency for EMI predictability
- Prebias startup capable
- RoHS compliant
- Meets Basic Insulation
- EU directive 2002/95/EC compliant for RoHS

Safety **UL, cUL** 60950 TUV EN60950



# **Electrical Specifications**

Input	
Input range	36V to 75VDC
Input surge	100V / 100ms
Efficiency	93% (typical)
Output	
Line regulation	± 0.1% (typical)
Load regulation	± 0.1% (typical)
Noise/ripple <sup>1</sup>	60mV (typical)
Transient response	5% deviation
	(50% to 75% step load) <250μs setting time
Over current protection	130% lo (autorecovery)
Over voltage protection	120% Vo (autorecovery)
Over temperature protection	115°C average PCB temperature (autorecovery)
Switching frequency	150kHz
Isolation voltage	2250 Vdc
Control	
Enable on/off	Positive or negative logic options; TTL compatible

## **Environmental Specifications**

Operating ambient air temperature range -40°C to +85°C ambient Storage temperature MTBF

-40°C to +125°C >1 million hours

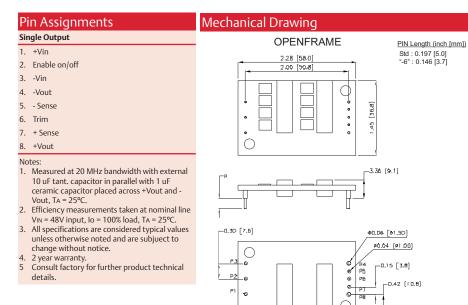


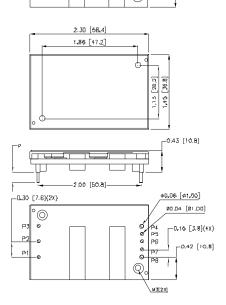


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#### Ordering Information

Input Voltage	Output Voltage	Output Current	<b>Efficiency</b> <sup>2</sup>	Model Number	
36 - 75V	12V	20A	93% Typ	ALQ20B48(N)-(6)L	
36 - 75V	12V	20A	93% Typ	AEQ20B48(N)-(6)L	
(6) : Notes: ALQ : AEQ :	(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) otes: ALQ : = openframe constructioin				





\* This is a Preliminary Data Sheet. Astec Power reserves the right to make changes to the information contained herein without notice and assumes no liability as a result of its use or application.

### Astec Power

5810 Van Allen Way Carlsbad, CA 92008 USA Telephone: +1 760 930 4600 Facsimile: +1 760 930 0698 Technical Support: +1 888 41 ASTEC or +1 407 241 2752

Rev. 01.17.07

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

Units 2111-2116, Level 21 Tower 1, Metroplaza 223, Hing Fong Road Kwai Fong, New Territories Hong Kong Telephone: +852 2437 9662 Facsimile: +852 2402 4426

For global contact, visit:

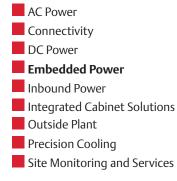
#### www.astecpower.com technicalsupport@astec.com

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