

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Rev. 01.17.07 ALQ/AEQ20B48 1 of 2

ALQ/AEQ20B48

20 Amps

Total Power: 240 Watts Input Voltage: 48V # of Outputs: 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

 $\begin{array}{lll} \mbox{Line regulation} & \pm 0.1\% \mbox{ (typical)} \\ \mbox{Load regulation} & \pm 0.1\% \mbox{ (typical)} \\ \mbox{Noise/ripple}^{\mbox{\tiny 1}} & 60\mbox{mV (typical)} \\ \mbox{Transient response} & 5\% \mbox{ deviation} \\ \end{array}$

(50% to 75% step load) <250μs setting time 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

Over current protection

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 -40°C to +125°C MTBF >1 million hours





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Ordering Information					
Input Voltage	Output Voltage	Output Current	Efficiency ²	Model Number	
36 - 75V	12V	20A	93% Typ	ALQ20B48(N)-(6)L	
36 - 75V	12V	20A	93% Typ	AEQ20B48(N)-(6)L	

Options:

(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)

Notes:

ALQ : = openframe construction
AEQ : = baseplate contruction
L : = RoHS Compliant (RoHS 6)

Pin Assignments

Single Output

+Vin
 Enable on/off

3. -Vin

4. -Vout

5. - Sense

6. Trim

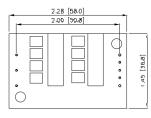
+ Sense
 +Vout

Notes:

Measured at 20 MHz bandwidth with external 10 uF tant. capacitor in parallel with 1 uF ceramic capacitor placed across +Vout and -Vout. TA = 25°C.

- Efficiency measurements taken at nominal line VIN = 48V input, lo = 100% load, TA = 25°C.
- All specifications are considered typical values unless otherwise noted and are subjuect to change without notice.
- 4. 2 year warranty.
- 5 Consult factory for further product technical details.

Mechanical Drawing

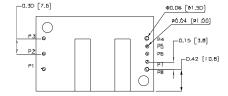


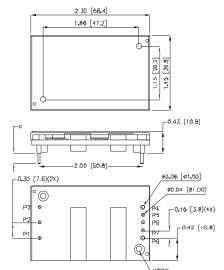
OPENFRAME

PIN Length (inch [mm])

Std: 0.197 [5.0] "-6": 0.146 [3.7]







^{*} 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

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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