

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







40 Amps

High Efficiency Quarter Brick

Total Power: 144W Input Voltages: 48V No. of Outputs: Single

Preliminary

Special Features

- High efficiency (91% Typical)
- -40°C to +70°C Ambient Air Operation
- Industry standard package 1.48" x 2.30" x 0.38"
- · High capacitive load limit on start-up
- Remote sense compensation
- Basic insulation
- Regulation to zero load
- Fixed frequency switching (200KHz)

Environmental

Ambient air operating temperature range:

-40°C to +70°C

Storage temperature: -40°C to +125°C Overtemperature protection: 115°C typical

MTBF: > 1 million hours

Safety

UL,cUL 60950

TUV EN60950

Electrical Specs

Input

Input Range 36 to 75 VDC Input Surge 100V /100ms Efficiency 91%@3.3V Typ

Output

Load Regulation 10mV typical down to no load

(3V3 output and below)

Line Regulation 10mV typical

(3V3 output and below)

Voltage Tolerance ±1%

Noise/Ripple 100mV max typ

150mV max for 5V

Up to 10% of Vo Remote sense

5% max deviation with 25% to 75% full Transient Response

(output 5V and above) 200mV (output below 5V) 500µs (max) recovery 140% nominal output 140% nominal output

Overvoltage Protection **Current Limit**

Switching Frequency

200KHz (typ)

Control

Voltage Adjust 90 to 110% for 5V output

80 to 110% for 3.3V and below

Enable TTL compatible

(positive & negative enable options)

AMERICAS

5810 Van Allen Way Carlsbad, CA 92008 Telephone: 760-930-4600 Facsimile: 760-930-0698

EUROPE

Astec House, Waterfront Business Park Merry Hill, Dudley West Midlands, DV5 1LX, UK Telephone: 44 (1384) 842-211 Facsimile: 44 (1384) 843-355 ASIA

Units 2111-2116, Level 21 Tower1, Metroplaza 223, Hing Fong Road Fwai Fong, New Territories Hong Kong Telephone: 852-2437-9662 Facsimile: 852-2402-4426

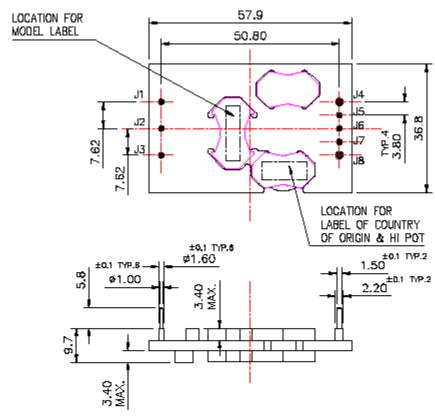


Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
36V to 75V	5.0V	25A	91% Typ	ALQ25A48
36V to 75V	3.3V	35A	90% Typ	ALQ35F48
36V to 75V	2.5V	40A	89% Typ	ALQ40G48
36V to 75V	1.8V	40A	87% Typ	ALQ40Y48
36V to 75V	1.5V	40A	85% Typ	ALQ40M48
36V to 75V	1.2V	40A	84% Typ	ALQ40K48

NOTES: "N" = Negative logic enable (without "N" = Positive logic enable)

Pin Assignments



J1: -Vin

J2: ENABLE

J3: +Vin

J4: -Vo J5: -SENSE

J6: TRIM

J7: +SENSE

J8: +Vo

Notes:

Nominal values apply with sense pins connected to+Vout and Ground Return with other control pins unconnected.

Specifications subject to change without

REV 3: Dec 2003

