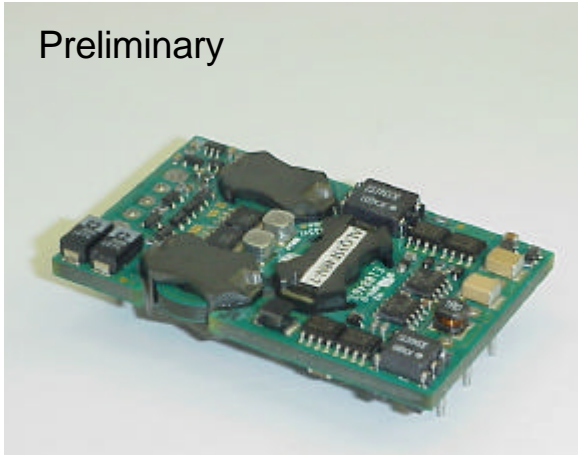


40 Amps

ALQ40

High Efficiency Quarter Brick

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



Preliminary

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
Remote sense	Up to 10% of Vo
Transient Response	5% max deviation with 25% to 75% full (output 5V and above) 200mV (output below 5V) 500µs (max) recovery
Overvoltage Protection	140% nominal output
Current Limit	140% nominal output
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)

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



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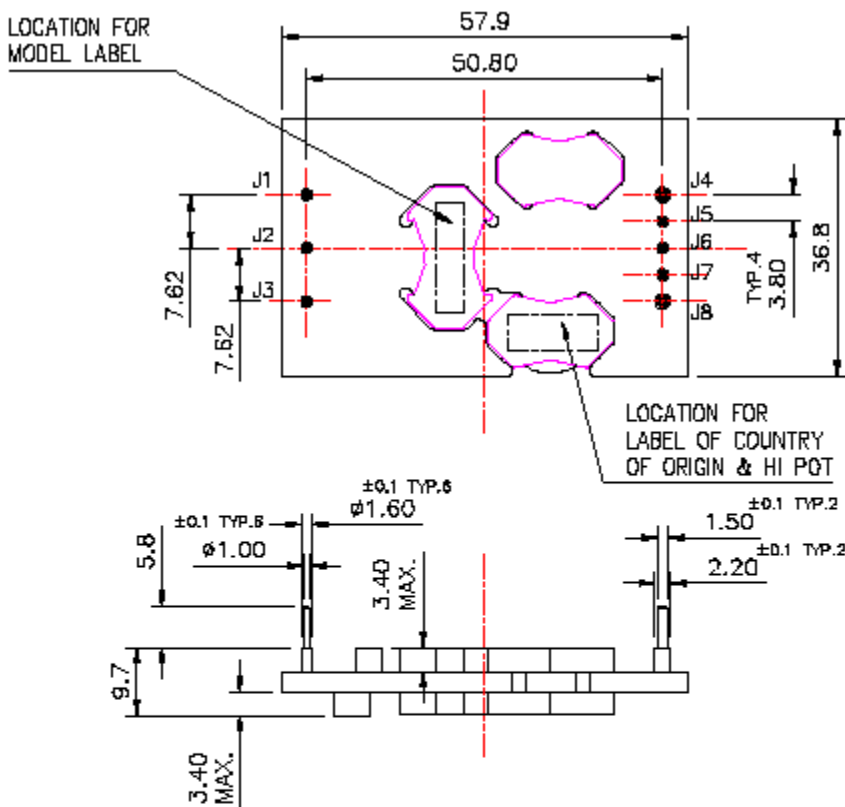


Ordering Information

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