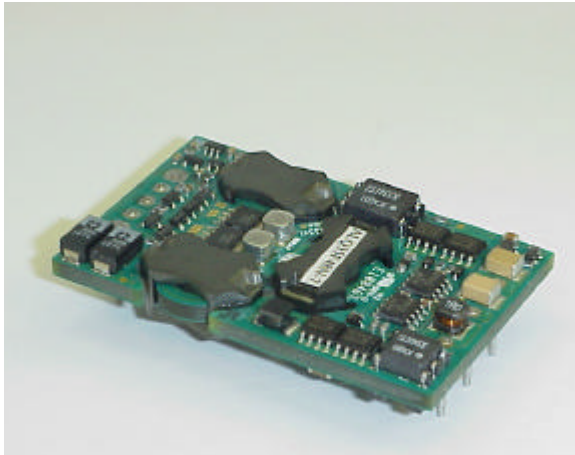


# 7 Amps

## ALQ07-D

Dual output Quarter Brick

Total Power: 30W  
 Input Voltages: 48V  
 No. of Outputs: Dual



### Electrical Specs

#### Input

Input Range 36 to 75 VDC  
 Input Surge 100V /100ms  
 Efficiency 82% Typ

#### Output

Load Regulation 15mV max  
 Line Regulation 8mV max  
 Cross Regulation 0.5% of  $V_o$  nom  
 Voltage Tolerance  $\pm 1\%$   
 Noise/Ripple 50mV max  
 Transient Response 5% max deviation with 50% to 75% load  
 200 $\mu$ s (max) recovery  
 Overvoltage Protection 5Vmax for 3.3Vo, 2.26V max for 1.5Vo,  
 1.8V max for 1.2Vo, 2.6V max for 1.8V0  
 Current Limit 15A max for  $I_{o1} + I_{o2}$   
 Switching Frequency 360KHz (typ)

#### Control

Voltage Adjust 80 to 110%  
 Enable TTL compatible  
 (positive & negative enable options)

### Special Features

- High efficiency (82% Typical)
- -40°C to +85°C Ambient Operation (with airflow)
- Industry standard package  
 1.45" x 2.28" x 0.43"
- High capacitive load limit on start-up
- Basic insulation
- Regulation to zero load
- Fixed frequency switching (360KHz)

### Environmental

Ambient air operating temperature range:  
 -40°C to +85°C (with airflow)  
 Storage temperature: -55°C to +125°C  
 Overtemperature protection: 101°C  
 MTBF: > 1 million hour

### Safety

UL 60950  
 CSA  
 TUV EN60950

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**Ordering Information**

Input Voltage	Output Voltage1	Output Current1	Output Voltage2	Output Current2	Efficiency	Model Number
36V to 75V	3.3V	6A*	1.5V	7A*	82% Typ	ALQ07FM48
36V to 75V	3.3V	6A*	1.2V	7A*	82% Typ	ALQ07FK48
36V to 75V	3.3V	6A*	1.8V	7A*	82% Typ	ALQ07FY48

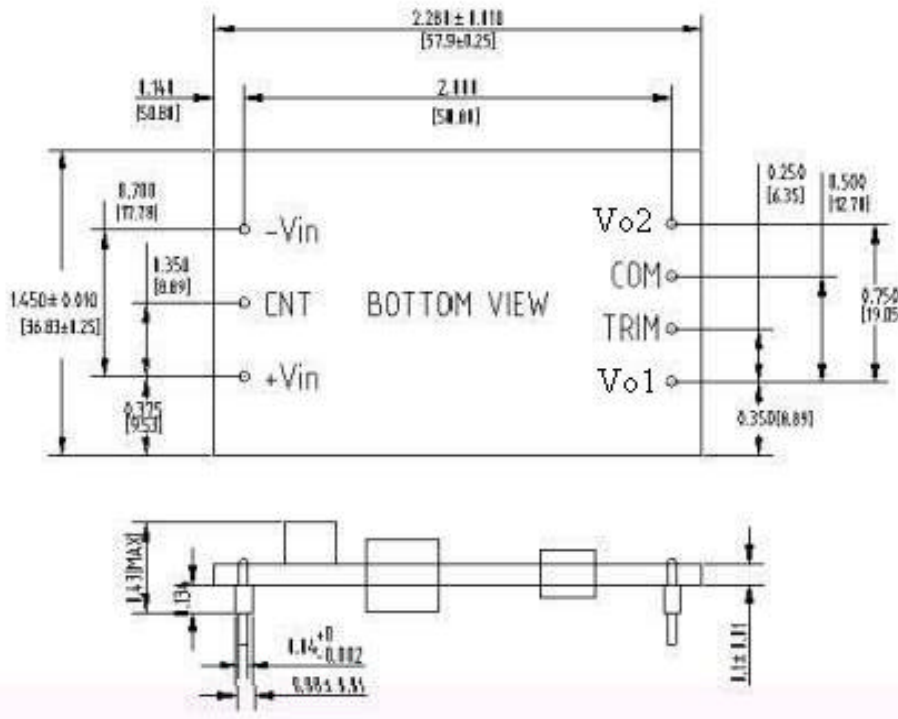
**Notes:**

Enable Function

"N" = negative logic enable (without "N" = positive enable)

\*  $I_{o1} + I_{o2} \leq 10A$

**Pin Assignments**



**Notes:**

Astec reserves the right to make changes to the information contained herein without notice and assumes no liability of its use and application.

REV 02: Oct 2003