

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 μ 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 1.8Vo
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

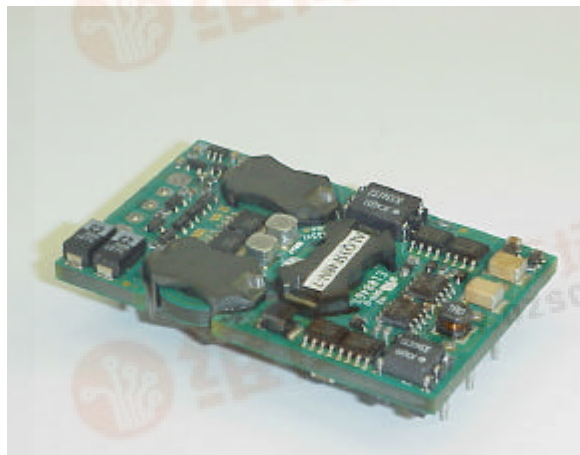
- High efficiency (82% Typical)
- -40°C to +85°C Ambient Operation (with airflow)
- Industry standard package
1.45" x 2.28" x 0.43"
- High capacitive load limit on start-up
- Basic insulation
- Regulation to zero load
- Fixed frequency switching (360KHz)

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

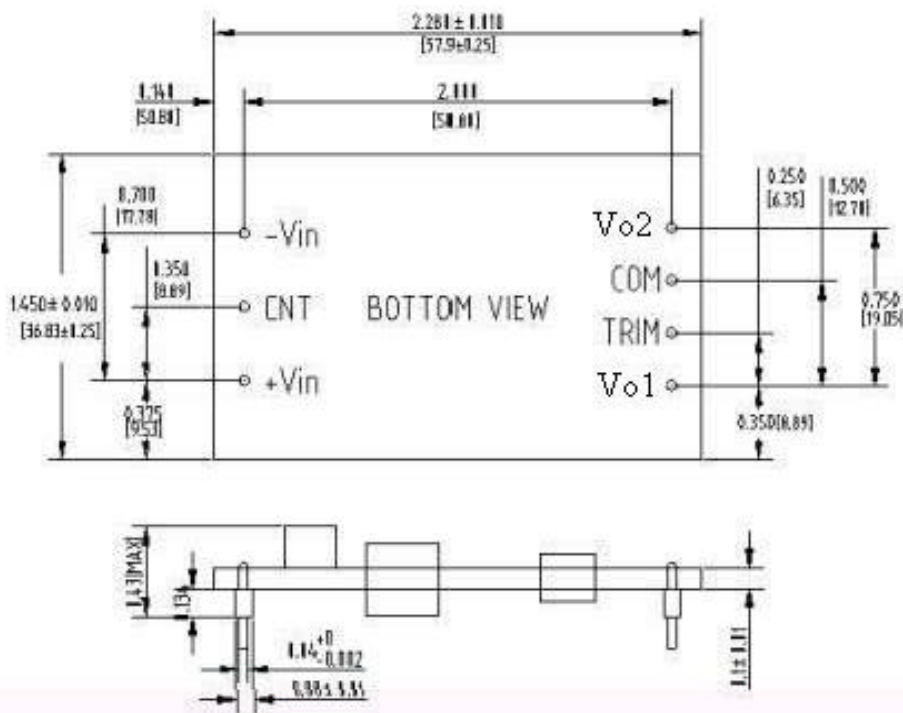
Notes:

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