

9 Amps, 12.5Amps

ALQ0912FK48N-6

High Efficiency Quarter Brick



Special Features

- High efficiency(Typ): 87%
- -20°C to +55°C Ambient Air Operation
- Industry standard package
2.3" x 1.45" x 0.34"
- High capacitive load limit on start-up
- Basic insulation
- Regulation to zero load

Environmental

Ambient air operating temperature range:
-25°C to +55°C
Overtemperature protection: 125°C typ
MTBF: > 2 million hours

Safety

UL,CSA,EN,TUV

Total Power: 50W(3.3V,1.2V)

Input Voltage: 48V

No.of Outputs: Dual outputs

Electrical Specs

Input

Input Range	36 to 75 Vdc
Input Surge	100V / 100ms
Efficiency (Typ)	87%

Output

Voltage Tolerance (line, load, temp)	<1.5%
Ripple&Noise	50mV Max.
Transient Response	Load change 25% of Io max from 50%Io max ,<200mV,<300µs (di/dt =1A/µs, output cap = 1000µF aluminium electrolyte)
Overvoltage Protection (Hiccup)	1.4V to 2.0V (for 1.2V) 3.9V to 5V (for 3.3V)
Current Limit(Hiccup)	20A (for 3.3V) 25A (for 1.2V)
Overtemperature Protection	Auto-recovery
Switching Frequency	300k

Control

Trim range(%)	80 to 110 (for 1.2V)
Enable	Positive & negative enable options

Thermal Derating

The module can deliver up to full power at 55°C ambient, Vin: 48V, with 200LFM forced air (output to input).



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Ordering Information

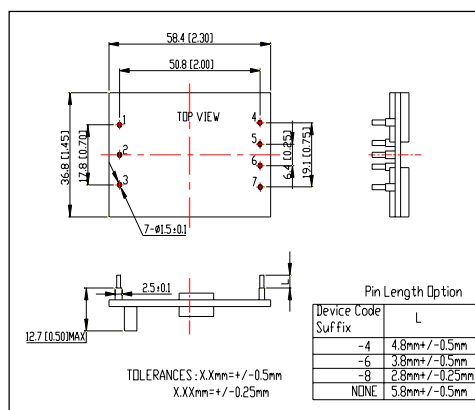
Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
48V	3.3V/1.2V	9A/12.5A	87% Typ	ALQ0912FK48N-6

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

Pin Assignments

Single Output

1. +Vin
2. CNT
3. -Vin
4. +Output (3.3V)
5. Trim
6. Com
7. +Output (1.2V)



Notes:

1. All specifications subject to change without notice. Mechanical drawings are for reference only.
2. Technical Reference Notes should be consulted for detailed information when available.

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