Embedded Power for **Business-Critical Continuity**

ALQ/AEQ20B48 20 Amps

Total Power: Input Voltage: 48V # of Outputs:

240 Watts 1

Special Features

- Quarter brick industry standard outline
- Baseplate or openframe low profile construction
- Industry Standard features : Input UVLO with hysteresis, Enable, OVP, OCP, OTP, output Voltage Trim, Differential Remote Sense
- Fixed switching frequency for EMI predictability
- Prebias startup capable
- RoHS compliant
- Meets Basic Insulation
- EU directive 2002/95/EC compliant for RoHS

Safety **UL, cUL** 60950 TUV EN60950



Electrical Specifications

Input	
Input range	36V to 75VDC
Input surge	100V / 100ms
Efficiency	93% (typical)
Output	
Line regulation	± 0.1% (typical)
Load regulation	± 0.1% (typical)
Noise/ripple ¹	60mV (typical)
Transient response	5% deviation
	(50% to 75% step load) <250μs setting time
Over current protection	130% lo (autorecovery)
Over voltage protection	120% Vo (autorecovery)
Over temperature protection	115°C average PCB temperature (autorecovery)
Switching frequency	150kHz
Isolation voltage	2250 Vdc
Control	
Enable on/off	Positive or negative logic options; TTL compatible

Environmental Specifications

Operating ambient air temperature range -40°C to +85°C ambient Storage temperature MTBF

-40°C to +125°C >1 million hours





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Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency ²	Model Number	
36 - 75V	12V	20A	93% Typ	ALQ20B48(N)-(6)L	
36 - 75V	12V	20A	93% Typ	AEQ20B48(N)-(6)L	
(6) : Notes: ALQ : AEQ :	(N) : "N" = designates Negative Logic Enable (default is Positive Enable with no suffix "N" required) (6) : "-6" = 3.7mm nominal pin length (default is 5mm nominal pin length with no suffix "-6" required) otes: ALQ : = openframe constructioin				





* This is a Preliminary Data Sheet. Astec Power reserves the right to make changes to the information contained herein without notice and assumes no liability as a result of its use or application.

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