Astec Industry Standard

150 Watts **BK60C-40**

Total Power: 150 Watts

Input Voltages: 48V No. of Outputs: Single

COM

High Efficiency



Special Features

- High efficiency, 5V@89%
- -40°C to 100°C baseplate operating temperature (no derating)
- Positive and Negative enable function
- Low output ripple and noise
- High capacitive load limit on start-up
- Remote sense compensation
- Regulation to zero load
- Fixed frequency switching (300 kHz)

Environmental

Operating temperature (baseplate): -40°C to +100°C

Storage temperature: -55°C to +105°C Overtemperature protection: 110°C typical

MTBF: >1 million hours

Electrical Specs

Input

Input range 36-75 VDC 100V / 100ms Input Surge Efficiency 89% @ 3.3V (typ)

Output

Load regulation 10mV typical down to no load

(output below 5V) Line regulation 10mV typical (outpt below 5V) 200mV p-p max) Ripple and noise Up to 0.5V Remote sense

Output voltage

±20% of nominal output adjust range

10% max deviation with 25% to 75% Transient Response full load (output 5V and above)

200mV

130% nominal output Overvoltage Protection

(output 5V and above) 160% nominal outpt (2.2V output) 140% nominal output

(3.3V output)

Current Limit 115% maximum output

Control

Voltage Adjust 90 to 110%

Enable TTL compatible (positive & negative

enable options)

Notes:

- 1. Nominal values apply with sense pins connected and other control pins unconnected.
- 2. Specifications subject to change without notice.

Safety

UL UL 1950 WWW.DZSC.COM CAN22.2-950

TUV EN60950





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Ordering Information

Input Voltage	Output Voltage	Efficiency	Model Number
48V	1.8V @ 40A	81% min	BK60C-048L-018F40H
48V	2.5V @ 40A	84% min	BK60C-048L-025F40H
48V	3.3V @ 40A	86% min	BK60C-048L-033F40H

NOTES:

Efficiency is measured at full load and Tc=70 Deg C

"N" added to suffix = Negative Enable (Omit suffix for positive enable (default))

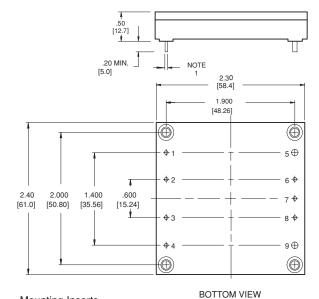
Pin Assignments

Single Output

- 1. -Vin
- 2. Case
- 3. Enable (on/off)
- 1. +Vin
- 5. -5V Rtn
- 6. Sense
- 7. Trim
- 3. + Sense
- 9. +Out

Notes:

- 1. 20 mHz bandwidth. An external 2.2 mf ceramic capacitor is recommended to be placed from +V out to -V out.
- Requires a 2.2 mf, 100V film capacitor connected between +V in and -V in to meet FCC class A and ETS300-386-1 requirements for conducted noise.
 Consult Factory for filtering information to meet FCC class B, VDE or EIC specifications.
- All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
- 4. All specifications subject to change without notice. Mechanical drawings are for reference only.
- 5. Please refer to the Technical Reference Notes for more information.
- 6. Warranty: 1 yr



Mounting Inserts M3 X .5 (4 places)

Case Material: Metal base, plastic cover Weight: 2.75 Oz / 78 Grams

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