# 150 Watts **BK60C-40**

**Total Power:** 150 Watts **Input Voltages:** 48V No. of Outputs: Single

**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

## Safety

UL UL 1950 CAN22.2-950

TUV EN60950

## **Electrical Specs**

## Input

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

## Output

Line regulation

Load regulation 10mV typical down to no load

(output below 5V) 10mV typical

(outpt below 5V) 200mV p-p max) Ripple and noise

Remote sense Up to 0.5V Output voltage

±20% of nominal output adjust range

**Transient Response** 10% max deviation with 25% to 75%

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.

Asia (HK): 852-2437-9662

2. Specifications subject to change without notice.



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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))

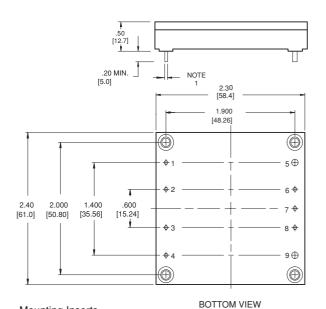
## **Pin Assignments**

### Single Output

- -Vin
- Case
- 3. Enable (on/off)
- +Vin
- -5V Rtn
- Sense
- 7. Trim
- + 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.
- 2. 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 spec-
- 3. 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

**Network Power**