150 Watts BK60C-40

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

Total Power: Input Voltages: No. of <u>Outputs:</u>

150 Watts 48V Single

Electrical Specs

Input Input range Input Surge Efficiency

Output Load regulation

Line regulation

Ripple and noise Remote sense Output voltage adjust range Transient Response

Overvoltage Protection

36-75 VDC 100V / 100ms 89% @ 3.3V (typ)

10mV typical down to no load (output below 5V) 10mV typical (outpt below 5V) 200mV p-p max) Up to 0.5V

±20% of nominal output 10% max deviation with 25% to 75% full load (output 5V and above) 200mV 130% nominal output (output 5V and above) 160% nominal outpt (2.2V output) 140% nominal output (3.3V output) 115% maximum output

Current Limit

Control

Voltage Adjust Enable 90 to 110% 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.



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ASIA

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Ordering Information

Input Voltage	Output Voltage	Efficiency	Model Number
	1 01 / 0 / 01	010/	
48V	1.8V @ 40A	81% min	BK60C-048L-018F40H
48V	2.5V @ 40A	84% min	BK60C-048L-025F40H

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

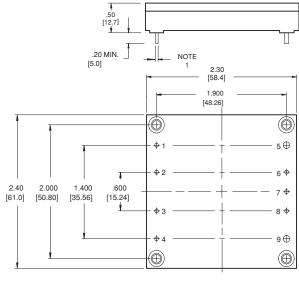
Single Output

- 1. -Vin
- 2. Case
- 3. Enable (on/off)
- 4. +Vin
- 5. -5V Rtn - Sense
- 6.
- 7. Trim 8. + 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 specifications.
- 3. All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
- All specifications subject to change without notice. Mechanical drawings are 4. 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) BOTTOM VIEW

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

