BK60C

150 Watts
High Efficiency

BK60C Industry Standard Series

Total Power	*150 Watts*
Input Voltages	*48V*
# of Outputs	*Single*

NEW



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 (500 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 UL1950, UL 1459

CSA CSA22.2-234
CSA22.2-950

VDE VDE 0805
EN60950

CE CE Mark

ETSI 300 132-2 para 4

BELLCORE NEBs

ELECTRICAL SPECIFICATIONS

Input

Input range ..... 36-75 VDC
Input Surge ..... 100V / 100ms
Efficiency ..... 90%@5V

Control

Voltage Adjust ..... 80 to 120%
Enable ..... TTL compatible
(positive & negative enable options)

Output

Load regulation ..... 0.2% typical down to no load
(output 5V and above)
10mV typical down to no load
(output below 5V)
Line regulation ..... 0.2% typical
(output 5V and above)
10mV typical
(outpt below 5V)
Ripple and noise ..... 2% typical (100mV p-p max)
Remote sense ..... Up to 0.5V
Output voltage
adjust range ..... +10-20% of nominal output
Transient Response ..... 10% max deviation with
25% to 75% full load
(output 5V and above)
200mV (output below 5V)
500 µS (max) recovery
Overvoltage Protection ..... 130% nominal output
(output 5V and above)
160% nominal outpt
(2.2V output)
140% nominal output
(3.3V output)
Current Limit ..... 115% maximum output

NOTES:

Nominal values apply with sense pins connected and other control pins unconnected.

Specifications subject to change without notice.

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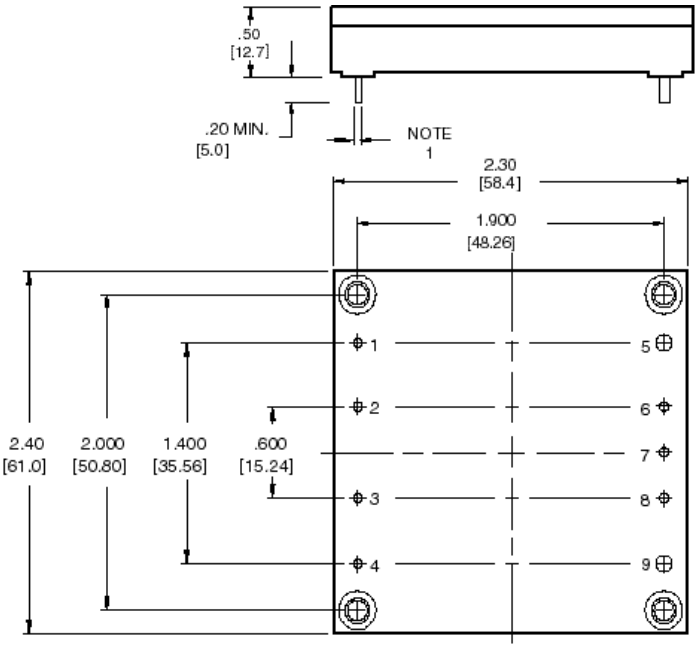
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ORDERING INFORMATION

Input Voltage	Output Voltage	Efficiency	Model Number
48V	1.8V @ 30A	76%	BK60C-048L-018F30H
48V	2.5V @ 30A	80%	BK60C-048L-025F30H
48V	3.3V @ 30A	85%	BK60C-048L-033F30H
48V	5.0V @ 30A	89%	BK60C-048L-050F30H

DIMENSIONS



BOTTOM VIEW

Mounting Inserts
M3 X .5 (4 places)

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

PIN ASSIGNMENTS

Single Output

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

NOTES

1. 20 mHz bandwidth. An external 2.2 µf ceramic capacitor is recommended to be placed from +V out to -V out.
2. Requires a 2.2 µf, 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.
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.