

BK60C

150 Watts
High Efficiency

BK60C Industry Standard Series

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



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
 (output 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

Oversvoltage Protection 130% nominal output
 (output 5V and above)
 160% nominal output
 (2.2V output)
 140% nominal output
 (3.3V output)

Current Limit 115% maximum output

NOTES:

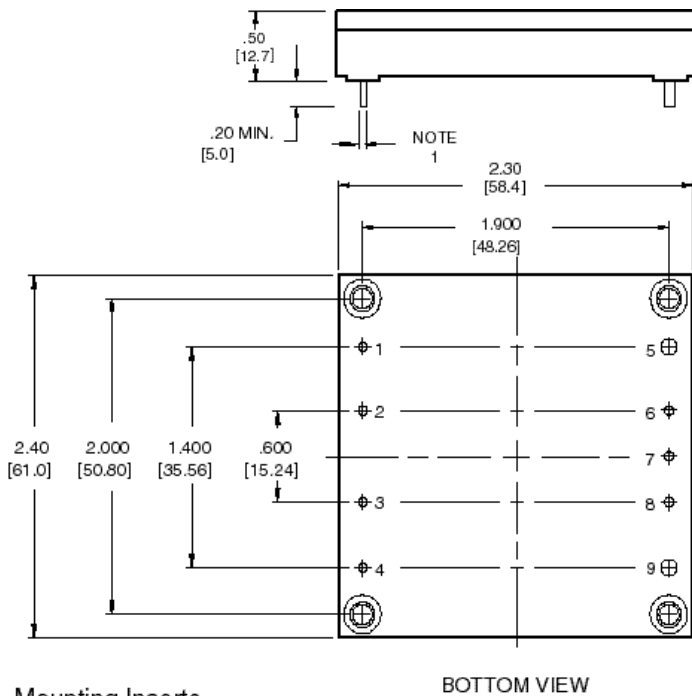
Nominal values apply with sense pins connected
 and other control pins unconnected.

Specifications subject to change without notice.

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



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

BK60C High Efficiency

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.