

AK60C

30 Watts



AK60C Industry Standard Series

Total Power	30 Watts
Input Voltages	48V
# of Outputs	Single



SPECIAL FEATURES

- Industry standard pin-out & performance 100°C baseplate temperature (no derating)
- Positive and negative enable function
- Low output ripple and noise
- Multiple pin length options
- Remote sense compensation
- Regulation to zero load
- Fixed frequency switching (300 kHz)

ENVIRONMENTAL

Operating case temperature range:
-40°C to +105°C

Storage temperature: -55°C to +125°C

MTBF: >1 million hours

SAFETY

UL UL1950

CSA CSA22.2-950

TUV EN60950

ELECTRICAL SPECIFICATIONS

Input

Input range 36-75 VDC
Input Surge 100V / 100ms
Efficiency 84%@5V

Control

Voltage Adjust 80 to 110%
Enable TTL compatible
(positive & negative enable options)

Output

Load regulation 0.2% max
(add 10mV for Vo 3.3V or less)
Line regulation 0.2% max (5V or greater)
(10mV for 3.3V or less)

Ripple and noise 100mV max

Output voltage
adjust range +10-20% of nominal output

Transient Response 5% max deviation with
50% to 75% full load

Overvoltage protection 140% Vo max

Inception of
Current Limit 140% maximum output

NOTES:

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

Specifications subject to change without notice.

ORDERING INFORMATION

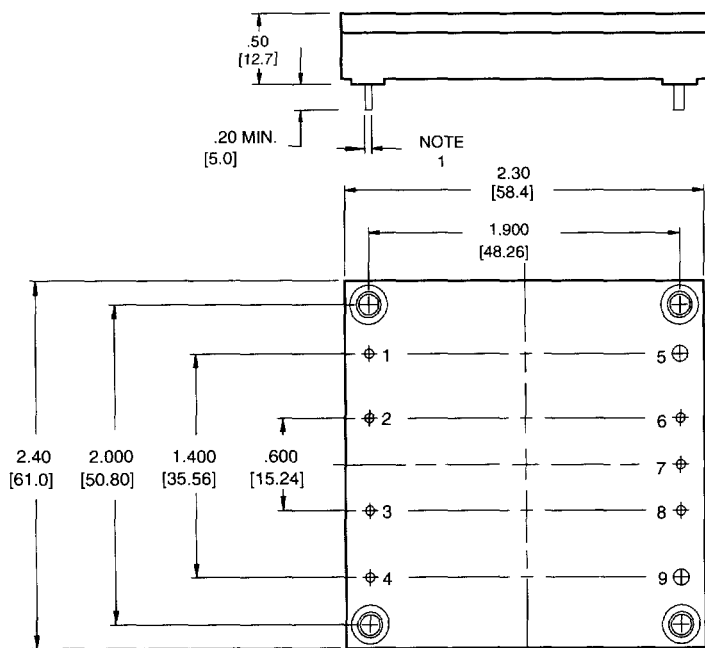
Input Voltage	Output Voltage	Model Number
48V	2.0V @ 6.5A	AK60C-048L-020F06
48V	3.3V @ 6.5A	AK60C-048L-033F06
48V	5.0V @ 6.0A	AK60C-048L-050F06
48V	12V @ 2.5A	AK60C-048L-120F06
48V	15V @ 2.0A	AK60C-048L-150F03

NOTES:

Enable Function

"N" = negative logic enable (without "N" = positive enable)

DIMENSIONS



BOTTOM VIEW

Mounting Inserts
M3 X .5 (4 places)

Case Material: Metal base/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 μ f ceramic capacitor is recommended to be placed from +V out to -V out.
2. Requires a 2.2 μ f, 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.