

# AK60C

50 Watts



## AK60C Industry Standard Series

|                |          |
|----------------|----------|
| Total Power    | 50 Watts |
| Input Voltages | 48V      |
| # of Outputs   | Single   |



### SPECIAL FEATURES

- Industry standard pin-out and performance
- 100°C Baseplate temperature (no derating)
- Positive and negative enable function
- Low output ripple and noise
- High capacitive load limit on start-up
- Regulation to zero load
- Frequency switching
- Basic insulation

### ENVIRONMENTAL

Operating temperature (baseplate):  
-40°C to +100°C

Storage temperature: -55°C to +125°C

Overtemperature protection: 110°C typical  
(12V out only)

MTBF: >1 million hours

### SAFETY

UL UL1950  
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 down to no load  
Line regulation ..... 0.1% max  
Ripple and noise ..... 150mV max  
Remote sense ..... 0.5%  $V_o$  max  
Transient Response ..... 6% max deviation with  
50% to 75% full load  
(output 5V and above)  
200mV (output below 5V)  
500  $\mu$ S (max) recovery  
Overvoltage Protection ..... 140% max (all outputs)  
Current Limit ..... 150% maximum output

Switching Frequency ..... 400 kHz typ

### NOTES:

Nominal values apply with sense pins connected to +Vout and Ground  
Return with other control pins unconnected.

Specifications subject to change without notice.

## ORDERING INFORMATION

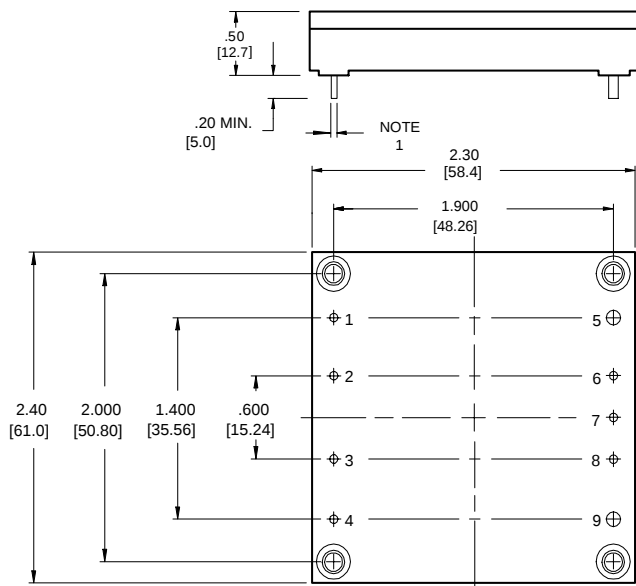
| Input Voltage | Output Voltage | Model Number      |
|---------------|----------------|-------------------|
| 48V           | 1.8V @ 10A     | AK60C-048L-018F10 |
| 48V           | 2.0V @ 10A     | AK60C-048L-020F10 |
| 48V           | 2.5V @ 10A     | AK60C-048L-025F10 |
| 48V           | 3.3V @ 10A     | AK60C-048L-033F10 |
| 48V           | 5.0V @ 10A     | AK60C-048L-050F10 |
| 48V           | 12V @ 4.2A     | AK60C-048L-120F04 |

### NOTES:

#### Enable Function

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

## DIMENSIONS



Mounting Inserts  
M3 X .5 (4 places)

BOTTOM VIEW

## 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