

30 Watts AK60C

Total Power: 30 Watts
Input Voltages: 48V
No. 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 Specs

Input

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

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

	500 μ S (max) recovery
Overvoltage protection	140% Vo max

Inception of current Limit	140% maximum output
----------------------------	---------------------

Control

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

Ordering Information

Input Voltage	Output Voltage	Model Number
48V	3.3V @ 6.5A	AK60C-048L-033F08
48V	5.0V @ 6.0A	AK60C-048L-050F06

NOTES:

Enable Function

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

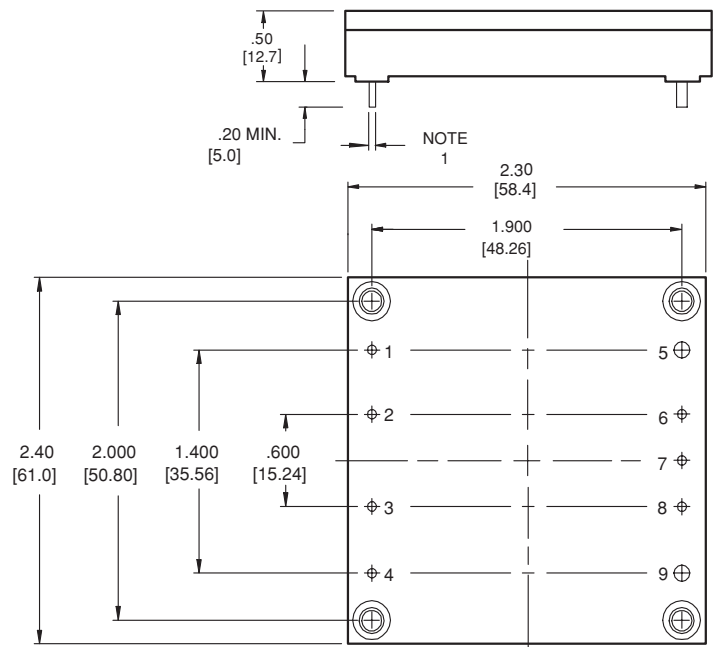
Pin Assignments

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 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.
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.
6. Warranty: 1 yr



BOTTOM VIEW

Mounting Inserts
M3 X .5 (4 places)

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