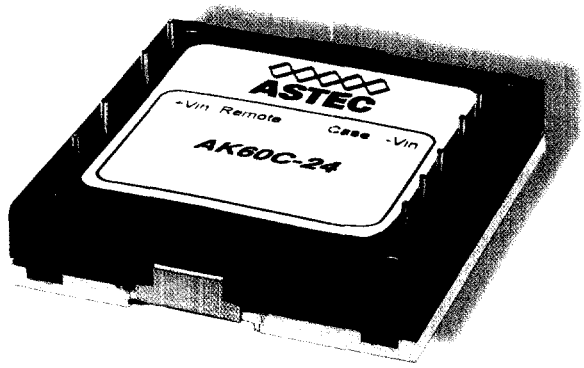
NEW

AK60C-24

100 Watts

AK60C-24 Industry Standard Series

Total Power	*100 Watts*
Input Voltages	*24V*
# of Outputs	*Single*



SPECIAL FEATURES

- 100 W, Single Output
- 24 Vdc Input
- Unencapsulated 2.3" x 2.4" x 0.50" pkg.
- 100°C baseplate temperature
- Trim feature
- Industry standard pin-out
- Enable (on/off)
- Remote sense

ENVIRONMENTAL

Operating Temperature (baseplate):
+100°C max (attachment points for external sink)

Storage Temperature: -40°C to +105°C

Humidity: 5% to 100% (non-condensing)

SAFETY

UL UL1950 Recognition pending
CSA CSA22.2-950 Recognition pending
EN60950 Recognition pending

ELECTRICAL SPECIFICATIONS

Input

Input range ..... 18 to 36VDC (24Vdc nom.)
Input capacitance ..... 5.2µF (typ)
Input reverse voltage ..... Fuse recommended protection
Input surge voltage ..... 50V for 100mS
Input reflected ripple ..... <200mA (P-P)
Efficiency ..... 84% (typ)

Output

Load regulation ..... Output 1: ±0.5% (10% to 100% load)
Line regulation ..... Output 1: ±0.25%
Voltage tolerance ..... Output 1: ±1%
Noise/ripple ..... 100mV p-p
Short circuit protection ..... Continuous power cycle
Overvoltage protection ..... Zener
Transient response ..... 2% Vo max recovery <150µsec (25% step load change to within 1% V_O)
Temperature coefficient ..... ±0.02% / °C

Control

Enable ..... on =2.5 to 5.5Vdc or open circuit
off = 0 to 0.8Vdc
Ref. to -Vin. TTL compatible
Input current (enable off) ..... <2mA
Output trim min. ..... ±5%

General

I/O isolation 1500Vdc
Isolation resistance ..... 1 x 10^8 (ohms)
Switching frequency 400kHz

ASTEC ASIA
6F., China Dyeing Works Building
382-392 Castle Peak Road
Tsuen Wan, N.T., Hong Kong
Telephone: 852-2437-9662
Facsimile: 852-2402-4426

ASTEC EUROPE
Astec House, Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX, UK
Telephone: 01384-842211
Facsimile: 01384-843355

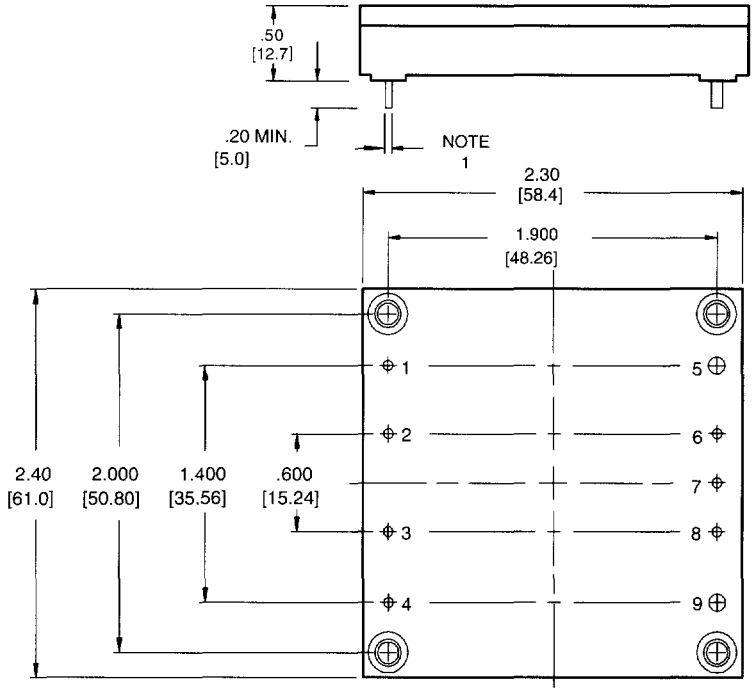
ASTEC AMERICA
5810 Van Allen Way
Carlsbad, CA 92008
Telephone: 760-930-4600
Facsimile: 760-930-0698

ORDERING INFORMATION

Input Vdc	Output Voltage	Model Number
18-36	5V @ 20A	AK60C-048L-050F20
18-36	3.3V @ 30A	AK60C-048L-033F30

Please contact Astec for information on other output voltages, power ranges and configurations.

DIMENSIONS



BOTTOM VIEW

Mounting Inserts
M3 X .5 (4 places)

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

PIN ASSIGNMENT

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.