

50 Watts

AK60A

Total Power: 50 Watts
 Input Voltages: 24V
 No. of Outputs: Single



Electrical Specs

Input

Input Range 18 to 36 VDC
 Efficiency 83% typical (5V @ 10A);
 87% typical (12V @ 4.2A)

Output

Load Regulation 0.2% typical
 Line Regulation 0.2% typical
 Noise/Ripple 150 mV typical (output below 5V)
 3% typical (output 5V and over)
 Remote sense Up to 0.5V
 Output Voltage ±10% of nominal output
 Adjust Range 10% maximum deviation with 500µs
 (25-75% full load) recovery
 Transient Response 130% nominal Vo
 160% nominal Vo (2.2V output)
 140% nominal Vo (3.3V output)
 115% Io maximum
 Overvoltage Protection
 Current Limit

Control

Voltage Adjust Enable 90 to 110% Vo
 TTL compatible (low to enable)

Special Features

- High efficiency - up to 87%
- 500 KHz Fixed frequency
- 100°C Baseplate operating temperature (no derating)
- Low output ripple and noise
- Excellent transient response
- High reliability - over 1 million hours MTBF
- Wide input voltage range
- TTL compatible enable control
- Adjustable output voltage
- Overtemperature and short circuit protection

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 (50°C baseplate)

Safety

UL	UL 1950	E182206
CSA	CSA22.2-234 CSA22.2-950	LR53982C
VDE	IEC950	20396-3336-1013*
EN	60950*	
CE	CEMark (LVD)*	

* On selected models

AMERICAS

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 Facsimile: 760-930-0698

EUROPE

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 Merry Hill, Dudley
 West Midlands, DY5 1LX, UK
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ASIA

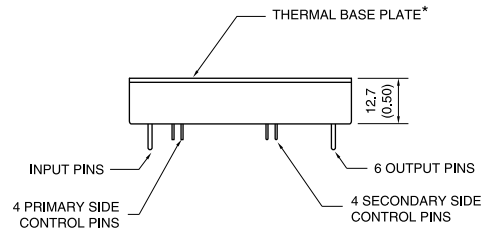
Units 2111-2116, Level 21
 Tower1, Metroplaza
 223, Hing Fong Road
 Fwai Fong, New Territories
 Hong Kong
 Telephone: 852-2437-9662
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Ordering Information

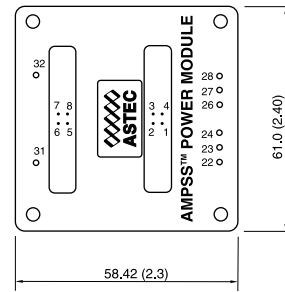
Input Voltage	Output Voltage	Output Current	Model Number
24V	2.2V	10A	AK60A-024L-022F10G
24V	3.3V	10A	AK60A-024L-033F10G
24V	5V	10A	AK60A-024L-050F10G
24V	12V	4.2A	AK60A-024L-120F04G
24V	15V	3.3A	AK60A-024L-150F03G
24V	24V	2A	AK60A-024L-240F02G

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



Pin Assignments

Input	Output	Control Pins
31. +ve	22. +ve	1. +SENSE
32. -ve	23. +ve	2. RSV
	24. +ve	3. V ADJ
	26. -ve	4. -SENSE
	27. -ve	5. S COM
	28. -ve	6. C. SHARE
		7. ENABLE
		8. CLK IN



Notes:

- Nominal values apply with sense pins connected and other control pins unconnected.
- Specifications subject to change without notice.
- Warranty: 1 yr

