

100 Watts

AK60A

Total Power: 100 Watts
Input Voltages: 24V
No. of Outputs: Single



Electrical Specs

Input

Input Range 18 to 36 VDC
 Efficiency 83% typical (5V @ 20A)
 88% typical (12V @ 8.3A)

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% max deviation with (25-75% full load) 500µs (max) recovery
 Transient Response 130% nominal Vo
 160% nominal Vo (2.2V)
 140% nominal Vo (3.3V)
 Overvoltage Protection 115% Io max
 Current Limit

Control

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

Special Features

- High efficiency - up to 88%
- 500 KHz Fixed frequency
- 100°C Baseplate operating temperature (with 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	
EN	60950	
CE	CEMark (LVD)	

AMERICAS

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

EUROPE

Astec House, Waterfront Business Park
 Merry Hill, Dudley
 West Midlands, DY5 1LX, UK
 Telephone: 44 (1384) 842-211
 Facsimile: 44 (1384) 843-355

ASIA

Units 2111-2116, Level 21
 Tower1, Metroplaza
 223, Hing Fong Road
 Fwai Fong, New Territories
 Hong Kong
 Telephone: 852-2437-9662
 Facsimile: 852-2402-4426



Ordering Information

Input Voltage	Output Voltage	Output Current	Model Number
24V	2.2V	20A	AK60A-024L-022F20G
24V	3.3	20A	AK60A-024L-033F20G
24V	5V	20A	AK60A-024L-050F20G
24V	12V	8.3A	AK60A-024L-120F08G
24V	15V	6.7A	AK60A-024L-150F07G
24V	24V	4.2A	AK60A-024L-240F04G

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.

