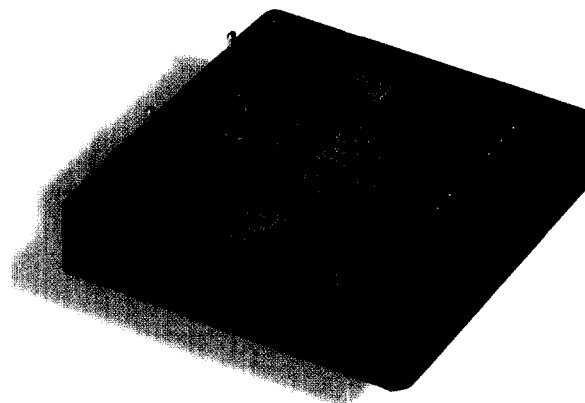


AK60A-100

100 Watts

AK60A-100 Economy Series

Total Power	100 Watts
Input Voltages	24V or 48V
# of Outputs	Single



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	LR53982C
	CSA22.2-950	
VDE*	IEC950	
EN*	60950	
CE*	CEMark (LVD)	

* On selected modules

ELECTRICAL SPECIFICATIONS

Input

Input Range 36 to 75 VDC or 18 to 36 VDC
or 200 to 400VDC

Efficiency 83% typical (5V @ 20A)
88% typical (12V @ 8.3A)

Control

Voltage Adjust 90 to 110% Vo

Enable TTL compatible (low to enable)

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

Adjust Range $\pm 10\%$ of nominal output

Transient Response 10% max deviation with (25-75% full load)
500 μ s (max) recovery

Overvoltage Protection 130% nominal Vo
160% nominal Vo (2.2V)
140% nominal Vo (3.3V)

Current Limit 115% Io max

NOTES

Nominal values apply with sense pins connected and other control pins unconnected.

Specifications subject to change without notice.



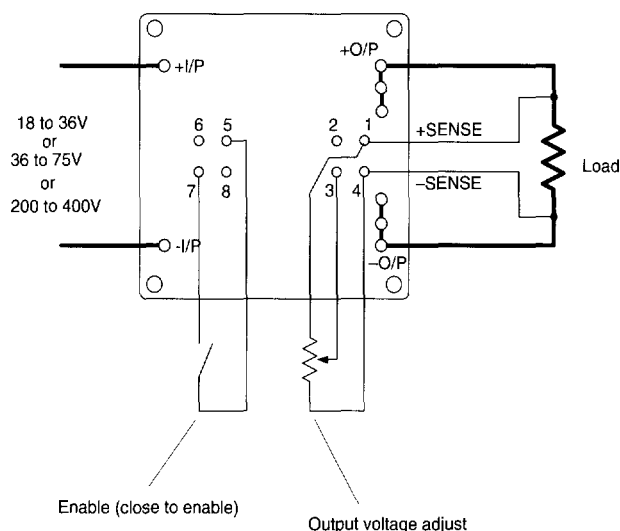


ORDERING INFORMATION

Input Voltage	Output Voltage	Output Current	Model Number	Input Voltage	Output Voltage	Output Current	Model Number
24V	2.2V	20A	AK60A-024L-022F20G	300V	2.2V	20A	AK60A-300L-022F20G
24V	3.3	20A	AK60A-024L-033F20G	300V	3.3V	20A	AK60A-300L-033F20G
24V	5V	20A	AK60A-024L-050F20G	300V	5V	20A	AK60A-300L-050F20G
24V	12V	8.3A	AK60A-024L-120F08G	300V	12V	8.3A	AK60A-300L-120F08G
24V	15V	6.7A	AK60A-024L-150F07G	300V	15V	6.7A	AK60A-300L-150F07G
24V	24V	4.2A	AK60A-024L-240F04G	300V	24V	4.2A	AK60A-300L-240F04G
48V	2.2V	20A	AK60A-048L-022F20G				
48V	3.3V	20A	AK60A-048L-033F20G				
48V	5V	20A	AK60A-048L-050F20G				
48V	12V	8.3A	AK60A-048L-120F08G				
48V	15V	6.7A	AK60A-048L-150F07G				

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

CONNECTIONS

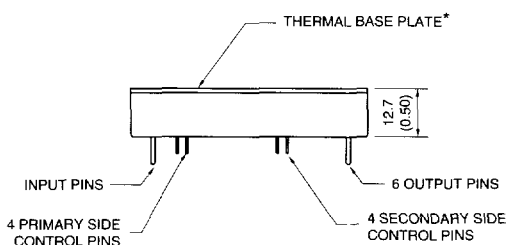


PIN ASSIGNMENT

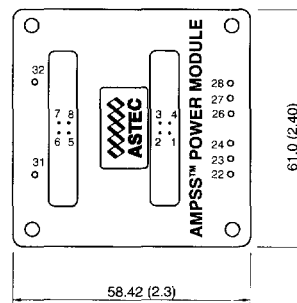
Input	Output	Control Pins
31. +ve	22. }	1. +SENSE
32. -ve	23. } +ve	2. RSV
	24. }	3. V ADJ
	26. }	4. -SENSE
	27. } -ve	5. S COM
	28. }	6. C.Share
		7. ENABLE
		8. CLK IN

Secondary side controls
Primary side controls

DIMENSIONS



Connection example



*Must be connected to protective earth
Viewed from pins side. Dimensions in mm (inches)

AK60A-100