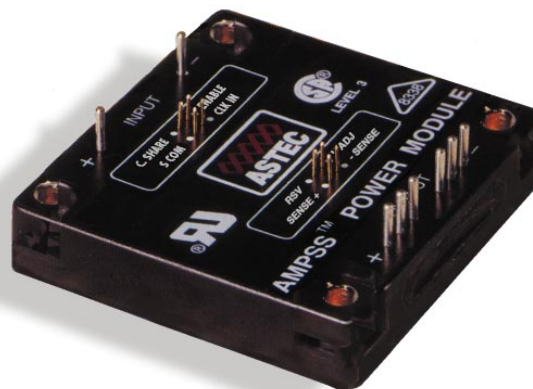


AK60A-50

50 Watts

AK60A-50 Economy Series

Total Power	50 Watts
Input Voltages	24V or 48V or 300V
# of Outputs	Single



SPECIAL FEATURES

- High Efficiency - up to 87%
- 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	20396-3336-1013*
EN	60950*	
CE	CEMark (LVD)*	

* On selected models

ELECTRICAL SPECIFICATIONS

Input

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

Efficiency 83% typical (5V @ 10A);
87% typical (12V @ 4.2A)

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% maximum deviation with 500 μ s
(25-75% full load) recovery

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

Current Limit 115% Io maximum

NOTES

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

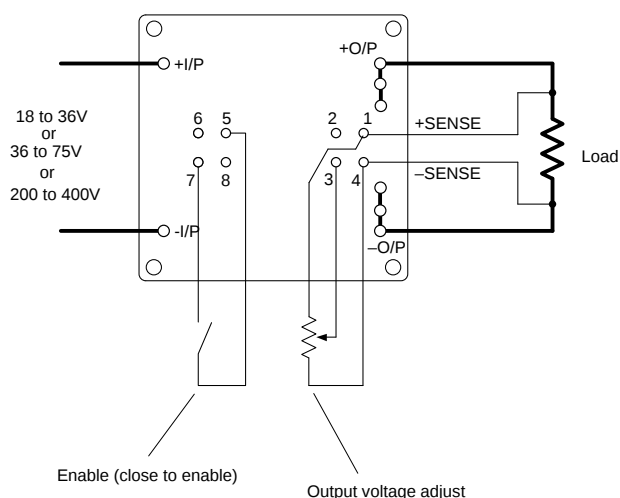
Specifications subject to change without notice.

ORDERING INFORMATION

Input Voltage	Output Voltage	Output Current	Model Number	Input Voltage	Output Voltage	Output Current	Model Number
24V	2.2V	10A	AK60A-024L-022F10G	300V	2.2V	10A	AK60A-300L-022F10G
24V	3.3V	10A	AK60A-024L-033F10G	300V	3.3V	10A	AK60A-300L-033F10G
24V	5V	10A	AK60A-024L-050F10G	300V	5V	10A	AK60A-300L-050F10G
24V	12V	4.2A	AK60A-024L-120F04G	300V	12V	4.2A	AK60A-300L-120F04G
24V	15V	3.3A	AK60A-024L-150F03G	300V	24V	2A	AK60A-300L-240F02G
24V	24V	2A	AK60A-024L-240F02G				
48V	2.2V	10A	AK60A-048L-022F10G				
48V	3.3V	10A	AK60A-048L-033F10G				
48V	5V	10A	AK60A-048L-050F10G				
48V	12V	4.2A	AK60A-048L-120F04G				
48V	15V	3.3A	AK60A-048L-150F03G				
48V	24V	2A	AK60A-048L-240F02G				

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

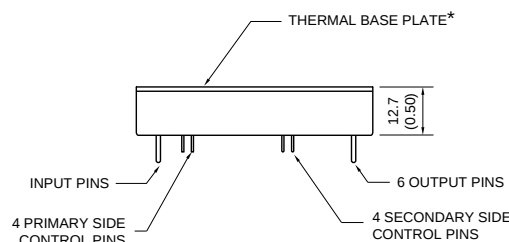
CONNECTIONS



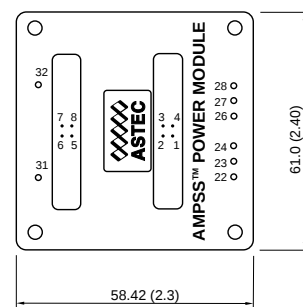
PIN ASSIGNMENTS

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

DIMENSIONS



*Must be connected to protective earth



Viewed from pins side. Dimensions in mm (inches)