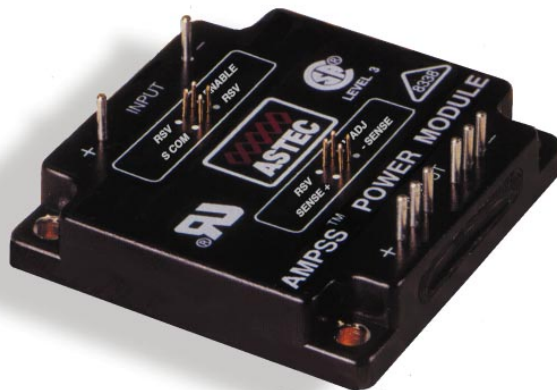


BK60A

150 Watts

BK60A High Power Economy Series

Total Power	150 Watts
Input Voltages	48V or 300V
# of Outputs	Single



SPECIAL FEATURES

- 150W continuous power
- 54W/in³ (3.3W/cm³)
- High Efficiency - up to 87% at full rated output
- 500 KHz fixed frequency
- 100°C baseplate operating temperature (with no derating)
- Low output ripple and noise
- Excellent transient response
- High Reliability
- Wide input voltage range
- Adjustable output voltage

ENVIRONMENTAL

Operating Temperature (baseplate):
-40°C to +100°C

Storage Temperature: -55°C to +105°C

Overtemperature Protection: 100°C typical

MTBF: > 1 million hours (50°C baseplate)

SAFETY

UL	UL 1950	E182206
CSA	CSA22.2-234	LR53982C
	CSA22.2-950	
VDE*	IEC 950	20396-3336-0013
EN*	60950	
CE*	CE Mark (LVD)	

* On selected models

ELECTRICAL SPECIFICATIONS

Input

Input Range 36 to 75 VDC or 200 to 400VDC

Efficiency 82% typical (5V @ 30A)
87% typical (12V @ 12.5A)

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 3% typical

Remote sense Up to 0.5V

Output Voltage

Adjust Range ±10% of nominal output

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

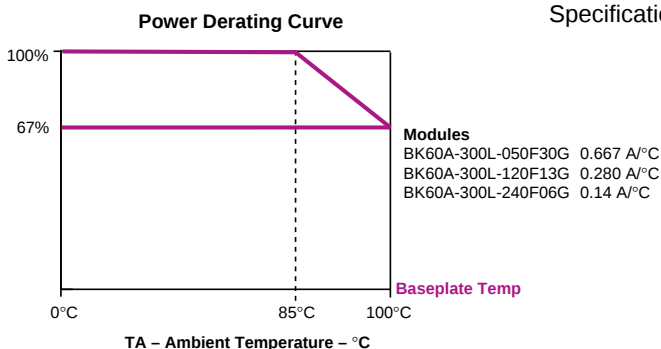
Overvoltage Protection 125% nominal Vo

Current Limit 115% Io max

NOTES

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

Specifications subject to change without notice.

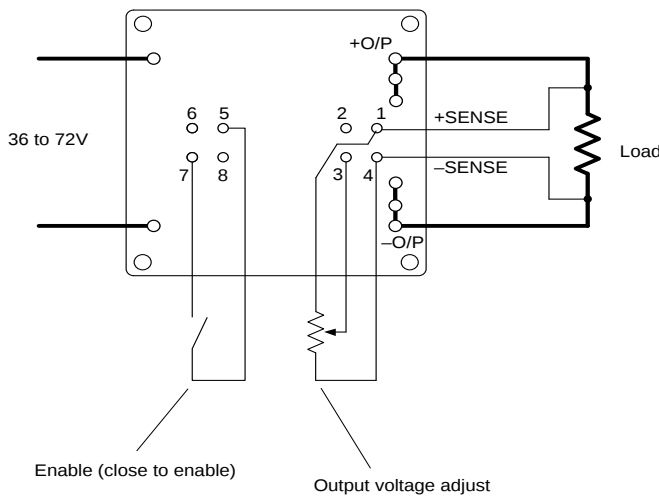


ORDERING INFORMATION

Input Voltage	Output Voltage	Output Current	Model Number	Input Voltage	Output Voltage	Output Current	Model Number
48V	5V	30A	BK60A-048L-050F30G	300V	5V	3.4A	BK60A-300L-050F30G
48V	12V	12.5A	BK60A-048L-120F13G	300V	12V	12.5A	BK60A-300L-120F13G
48V	15V	10A	BK60A-048L-150F10	300V	24V	6.25A	BK60A-300L-240F06G

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

CONNECTIONS



Connection example

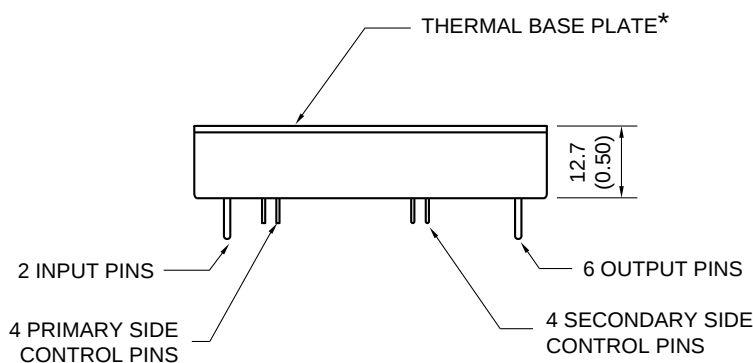
PIN ASSIGNMENT

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

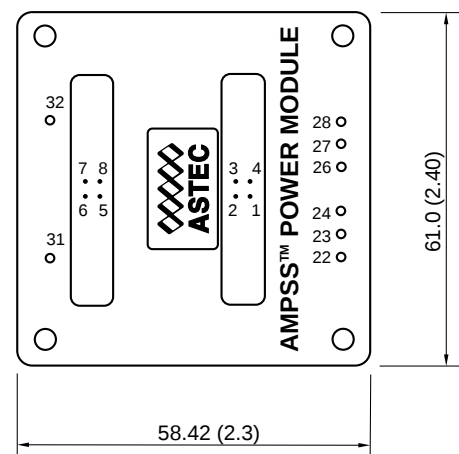
Secondary side controls
Primary side controls

BK60A

DIMENSIONS



*Must be connected to protective earth



Viewed from pins side. Dimensions in mm (inches)