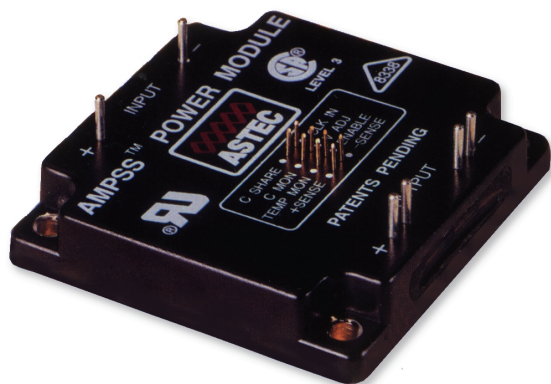


120 Watts
12V, 24V or 48V
Single, Dual



- High efficiency - up to 86%
- 500 KHz fixed frequency
- 100°C baseplate operating temperature (with no derating)
- Low output ripple and noise
- Excellent transient response
- Safety isolated low voltage control and monitoring
- High reliability
- Wide input voltage range
- Parallelable with accurate current sharing
- Adjustable output voltage and current limit
- Regulation to zero load
- Temperature monitor output

Input

Input Range
Efficiency

180 to 400 VDC or 36 to 72 VDC
83% typical (5V @ 20A);
85% typical (12V @ 9A)

Output

- Load Regulation
- Line Regulation
- Noise/Ripple

0.2% typical down to no load
0.1% typical
75 mV typical (output below 5V)
2% typical (output 5V and over)
Up to 0.5V

- Remote sense
- Output Voltage Adjust Range
- Transient Response

- ±10% of nominal output
- 4% typical deviation with 250µs recovery (25-75% full load)
- 5% typical
- 125% nominal Vo
- 110% Io max

Current Share Accuracy
Overvoltage Protection
Current Limit

Control

Voltage Adjust
Enable
Clock Input
(external sync)
Temperature
Monitor Output
Current Monitor Output

90 to 110% V_o
TTL compatible (low to enable)
3.3 to 5.5Vp-p @ 1MHz $\pm$ 10%
10 mV/ $^{\circ}$ K (2.73V = 0 $^{\circ}$ C)
0 to 1mA (1mA = 100% I_o Rated)

Environmental

Storage temperature: -40°C to +105°C
Overtemperature shutdown: 90°C typical
MTBF: > 1 million hours (50°C baseplate)

Safety

UL	UL 1950	E182206 & E32002
CSA	CSA22.2-234 CSA22.2-950	LR53982C
VDE	IEC 950	20396-3336-1003 & 1009
EN	60950	
CE	CEMark (LVD)	

Ordering Information

Input Voltage	Output Voltage	Output Current	Model Number
300V	2.0V	20A	AL60A-300L-020F20
300V	3.3V	25A	AL60A-300L-033F25
300V	5V	20A	AL60A-300L-050F20
300V	12V	9A	AL60A-300L-120F09
300V	15V	8A	AL60A-300L-150F08
300V	24V	3A	AL60A-300L-240F03

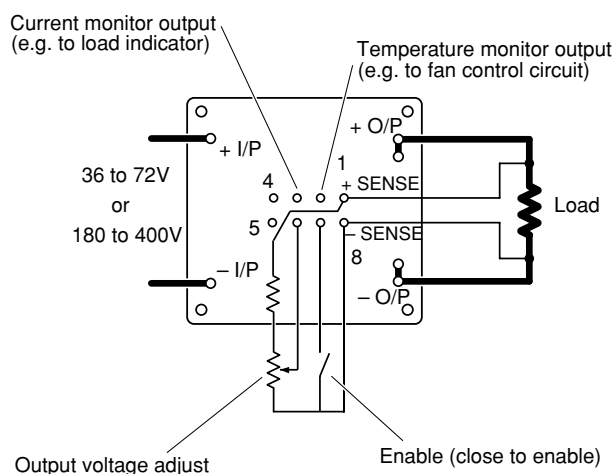
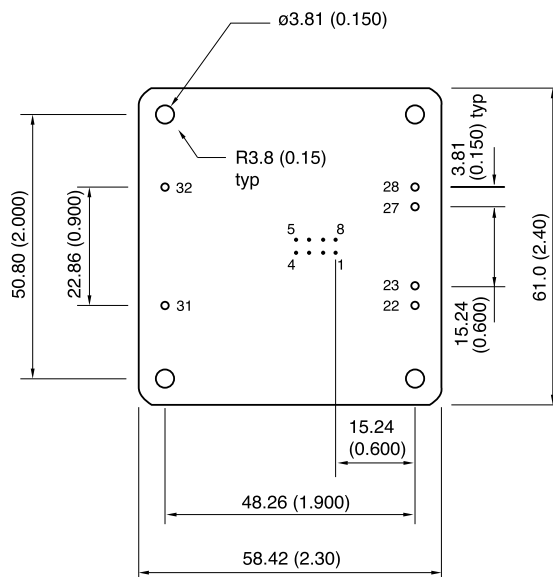
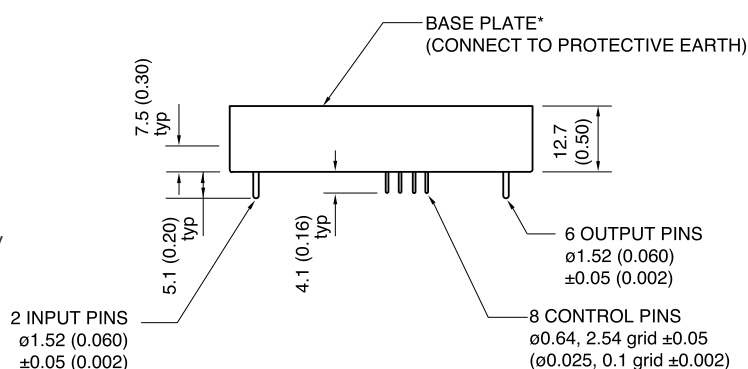
Input Voltage	Output Voltage	Output Current	Model Number
48V	2.2V	30A	AL60A-048L-022F30
48V	3.3V	25A	AL60A-048L-033F25
48V	5V	10A	AL60A-048L-050F10
48V	5V	20A	AL60A-048L-050F20
48V	12V	6A	AL60A-048L-120F06
48V	12V	9A	AL60A-048L-120F09
48V	15V	8A	AL60A-048L-150F08

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. TEMP MON
	27. -ve	3. C MON
	28. -ve	4. C SHARE
		5. CLK IN
		6. V ADJ
		7. ENABLE
		8. -SENSE

Secondary
side
controls



Notes:

1. All dimensions in mm and (inches)
2. Baseplate must be connected to protective earth
3. General tolerance: .X ± 0.5 (0.02)
 .XX ± 0.25 (0.010)
4. Surface Flatness: Concave 0.12mm max
 Convex 0.38mm max