



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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240 Watts

AM80A

Total Power: 240 Watts
Input Voltages: 24V, 48V, 150V, 300V, or 320V
No. of Outputs: Single



Electrical Specs

Input

Input Range 18 - 36V or 36 - 72 VDC
 or 90 - 200 VDC or 180 - 400 VDC
 Efficiency 84% typical (5V @ 40A)
 87% typical (12V @ 18A)

Output

Load Regulation 0.1% typical down to no load
 Line Regulation 0.02% typical
 Noise/Ripple 50 mV typical (output below 5V)
 1% typical (output 5V and over)
 Up to 0.5V
 Remote sense
 Output Voltage
 Adjust Range $\pm 20\%$ of nominal
 Transient Response 3% typical deviation with 300 μ s recovery
 (25-75% full load)
 Current Share Accuracy 3% typical
 Overvoltage Protection 115% V_o (nominal)
 Current Limit 110% I_o maximum

Control

Voltage Adjust 80 to 120% V_o linear programming
 Enable TTL compatible (low to enable)
 Current Limit Adjust 20 to 100% I_o linear programming
 Clock Input (external sync) 3.3 to 5.5Vp-p @ 1MHz $\pm 10\%$
 Clock Output (internal clock) 4.5Vp-p typical @ 1MHz $\pm 0.5\%$
 Power Good Identification High (V_o) = power good
 Temperature
 Monitor Output 10 mV/ $^{\circ}$ K (2.73V = 0 $^{\circ}$ C)
 Current Monitor Output 0 to 1mA (1 mA = 100% I_o rated)
 Over Voltage Protection Adjust 110 to 150% V_o linear programming by
 voltage or resistor

Notes

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

Specifications subject to change without notice.

Special Features

- 1MHz Fixed frequency
- 100 $^{\circ}$ C Baseplate operating temperature (no derating)
- Low output ripple and noise
- Excellent transient response
- Safety isolated low voltage interface with ALP™ linear control
- High reliability - over 1 million hours MTBF
- Wide input voltage range
- Parallelable with accurate current sharing
- Current and temperature monitoring outputs

Environmental

Operating temperature (baseplate):
 -20 $^{\circ}$ C to +100 $^{\circ}$ C

Storage temperature: -40 $^{\circ}$ C to +105 $^{\circ}$ C

Overtemperature protection: 110 $^{\circ}$ C typical

MTBF: > 1 million hours (50 $^{\circ}$ C baseplate)

Environmental

UL	UL 1950	E132002
CSA	CSA22.2-234	LR53982C
	CSA22.2-950	
VDE	IED950	20396-3336-1005 & 1006
EN	60950	
CE	CEMark (LVD)	

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Ordering Information

Input Voltage	Output Voltage	Output Current	Model Number	Input Voltage	Output Voltage	Output Current	Model Number
300V	2.2V	60A	AM80A-300L-022F60	150V	6.5V	33A	AM80A-150L-065F33
300V	3.3V	50A	AM80A-300L-033F50	48V	1.2V	60A	AM80A-048L-012F60
300V	5V	40A	AM80A-300L-050F40	48V	2.2V	60A	AM80A-048L-022F60
300V	6.5V	33A	AM80A-300L-065F33	48V	3.3V	50A	AM80A-048L-033F50
300V	12V	18A	AM80A-300L-120F18	48V	5V	40A	AM80A-048L-050F40
300V	15V	16A	AM80A-300L-150F16	48V	12V	18A	AM80A-048L-120F18
300V	24V	10A	AM80A-300L-240F10	48V	15V	16A	AM80A-048L-150F16
300V	28V	9A	AM80A-300L-280F09	48V	24V	10A	AM80A-048L-240F10
320V	28V	9A	AM80A-320L-280F09**	24V	6.5V	27A	AM80A-024L-065F27

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

Pin Assignments

Input	Output	Control Pins
31. +ve	21.	1. +SENSE
32. -ve	22.	2. TEMP MON
	23.	3. C MON
	24.	4. C SHARE
	26.	5. CLK OUT
	27.	6. CLK IN
	28.	7. PG/ID
	29.	8. C LIM ADJ
		9. OVP ADJ
		10. V ADJ
		11. ENABLE
		12. -SENSE

