



AMPSS Power Modules 50 to 500 Watts

Featuring high reliability and convenient control and monitoring functions, the AMPSS® family of high density distributed power modules is designed to reduce product development time, and enhance system flexibility and performance. The AMPSS® family incorporates AMPSS® Power Modules (50 to 500W) and AMPSS® Micro Regulators (1 to 45W) to provide a total solution for your distributed power requirements. The AMPSS® Power Module range features two levels of power density and eight series providing a wide range of functionality.

SPECIAL FEATURES

- High efficiency
- Up to 1 MHz fixed frequency
- Up to 100°C baseplate operating temperature
- Wide choice of integral control and monitoring functions
- Wide input voltage range
- Parallelable with accurate current sharing

ENVIRONMENTAL

Operating Temperature: -20° to 85°C
AM80A: -20° to 100°C (no derating)

Storage Temperature: -40° to 105°C

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

Overtemperature shutdown: 90°C typical, AM80: 110°C typical

SAFETY

UL	UL1950
CSA	CSA22.2-234 CSA22.2-950
VDE	VDE 0805 EN60950

FILE NUMBERS

UL	E132002
CSA	LR53982C
VDE	11774-3336-1175, -1189, -1212-1214, 1218, 1223, -1225

SERIES OVERVIEW

AMPSS® Modules are available in Economy, Standard, Enhanced and Performance versions. The Economy Series provides clean, reliable, low cost DC/DC power conversion with simple control functions. The Standard, Enhanced and Performance Series deliver increasing levels of control and monitoring functionality.

The modules are available in two sizes, the "80" size being 0.5 x 2.4 x 4.6 inches, while the "60" size measures just 0.5 x 2.4 x 2.3 inches

The AM80A and BM80A Performance Series are the most sophisticated of the AMPSS® range. These modules feature Astec Linear Programming (ALP™) to enable precise adjustment of the module's parameters. The BM80A is a high power model which can deliver up to 300W of power. The AM80A can operate at a baseplate temperature of 100°C without derating.

The AL60A and AL80A Enhanced Series feature accurate current sharing and isolated control and monitoring pins.

The AK80A Standard Series is ideal for cost-conscious designs which also require the advantages of high power density, parallelability and a wide input voltage range.

The AJ80A and the AJ60A Economy Series provide clean, reliable, low cost DC/DC conversion with simple control functions. The BJ80A is a high power version of the AJ60 delivering up to 150W, a power density of 54W/in³.

AMPSS® Power Modules flexibility make them ideal for distributed power systems, N+1 redundant systems and other industrial, telecom and EDP applications.

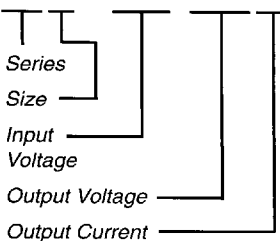
ORDERING INFORMATION

Doc No.	Model	Total Power	Input Range	Output	Remote Sense	Remote Sense	V Out Adjust	Full Sec Control	Current Share	Clock Sync	Temp Monitor	Current Monitor	Power Good	C Limit Adjust	OVP Adjust	ALP™	100°C Baseplate
1203	AM80A Performance Series	240W max.	24VDC (18-36V) or 48VDC (36-72V) or 300VDC (180-400V)	1.2V @ 60A 2.2V @ 60A 3.3V @ 50A 5V @ 40A 6.5V @ 33A 12V @ 18A 15V @ 16A 24V @ 10A 28V @ 9A	•	•	•	•	•	•	•	•	•	•	•	•	•
1200	BM80A High Power Performance Series	300W max.	48VDC (36-72V) or 300VDC (180-400V)	3.3V @ 70A 5V @ 60A	•	•	•	•	•	•	•	•	•	•	•	•	•
1201	AL80A Enhanced Series	240W max.	48VDC (36-72V) or 300VDC (180-400V)	2.2V @ 60A 3.3V @ 50A 5V @ 40A 6.3V @ 34A 12V @ 18A 15V @ 16A	•	•	•	•	•	•	•	•	•	•	•	•	•
1202	AK80A Standard Series	240W max.	48VDC (36-72V) or 300VDC (180-400V)	3.3V @ 50A 5V @ 40A 12V @ 18A 15V @ 16A	•	•	•	•	•	•	•	•	•	•	•	•	•
1212	AJ80A Economy Series	240W max.	24VDC (18-36V) or 48VDC (36-72V) or 300VDC (180-400V)	3.3V @ 50A 5V @ 40A 12V @ 18A 15V @ 16A	•	•	•	•	•	•	•	•	•	•	•	•	•
1326	BJ60A High Power Economy Series	150W max.	48VDC (36-72V) or 300VDC (180-400V)	5V @ 30A 12V @ 12.5A 15V @ 10A	•	•	•	•	•	•	•	•	•	•	•	•	•
1205	AL60A Enhanced Series	120W max.	48VDC (36-72V) or 300VDC (180-400V)	2.2V @ 30A 3.3V @ 25A 5V @ 20A 12V @ 9A 15V @ 8A	•	•	•	•	•	•	•	•	•	•	•	•	•
1329	AJ60A Economy Series	100W max.	24VDC (18-36V) or 48VDC (36-72V) or 300VDC (180-400V)	5V @ 20A 12V @ 8.3A 15V @ 6.7A	•	•	•	•	•	•	•	•	•	•	•	•	•
1328		75W max.	24VDC (18-36V) or 48VDC (36-72V)	5V @ 15A 12V @ 6.3A 15V @ 5A	•	•	•	•	•	•	•	•	•	•	•	•	•
1327		50W max.	24VDC (18-36V) or 48VDC (36-72V)	5V @ 10A 12V @ 4.2A 15V @ 3.3A	•	•	•	•	•	•	•	•	•	•	•	•	•

DC/DC

MODEL SELECTION

AM80A-300L-050F40



NOTE

Drawings for 80 and 60 size modules, please see page 90.

Warranty: 1 year

Please refer to the AMPSS® Catalog for more complete information.



PowerFAX
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