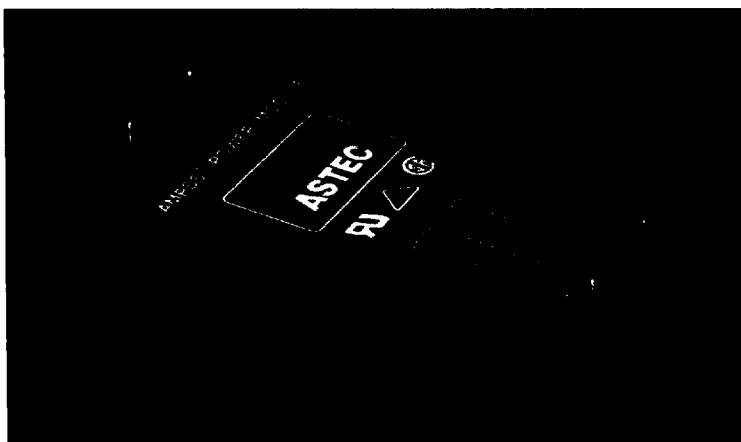


Power Factor Correction Module

1200 Watts max • 85-265VAC Input
385V Output

The PFC Power Factor Correction modules are part of Astec's family of advanced high density modular power supply components.

Featuring high reliability and convenient control and monitoring functions, these modules are designed to reduce product development time and enhance system performance. The PFC works over all typical line voltages used worldwide, and provides unity power factor with very low levels of harmonic distortion in line current.



SPECIAL FEATURES

- Unity power factor
- High efficiency: up to 95%
- Universal input voltage and frequency range
- Up to 1200W output power
- Parallelable with current sharing within 3%
- <10% harmonic distortion conforming to IEC555-2
- 85°C baseplate operating temperature (no derating)
- Power fail warning signal
- PLD feature
- Enable output to control AMPSS® DC/DC converters

ENVIRONMENTAL

Operating Temperature (baseplate):
-20° to +85°C

Storage Temperature: -40° to 105°C

Overtemperature Shutdown:
90°C typical

MTBF: > 1 million hours

SAFETY

UL	UL1950
CSA	CSA22.2-234M90
	CSA22.2-950
VDE	VDE0805/EN60950

FILE NUMBERS

UL	E132002
CSA	LR53982C
VDE	11774-3336-1250

ELECTRICAL SPECIFICATIONS

Input

Input Voltage	85 to 265 VAC
Input Frequency	50/60 Hz
Efficiency	92% typical, ($V_1 = 115$ VAC); 94% typical, ($V_1 = 230$ VAC)
Total Harmonic Distortion	10% max ($V_1 = 115$ or 230VAC)
Power Factor	0.99 typical, ($I_o = 2A$); 0.97 typical, ($I_o = 1A$)

Control

Power Fail Warning	(PFW) Direct drive output to opto-isolator
PFW Adjust Input	203 to 343 VDC linear programming by voltage or resistor

DC/DC Module

Enable Output	Direct drive output to opto-isolator
PFC Enable Input	TTL compatible (low to enable)
Clock Input (external sync)	3.3V to 5.5Vp-p @ 1MHz $\pm$ 10%
Clock Output (internal clock)	4.5Vp-p typical @ 1MHz $\pm$ 2%
Temp Monitor Output	10mV/°K, 2.73V = 0°C
Current Monitor Output	0 to 1.25mA

Output

Output Voltage	385V typical, ($I_o = 2A$); 393V typical, ($I_o = 0A$)
Current Share Accuracy	3% typical, ($I_o = 1.6A$)
Overvoltage protection	417V typical
Power Limit	1200W @ 230 VAC; 750W @ 115 VAC

ORDERING INFORMATION

Doc. No.**	Model Number	Notes
1213	APA100-101	For paralleling the total input current must be < 16A rms
1213	APA100-102	Designed for paralleling where the total input current > 16A rms requires external negative rail rectifiers
Warranty: 1 year		

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



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