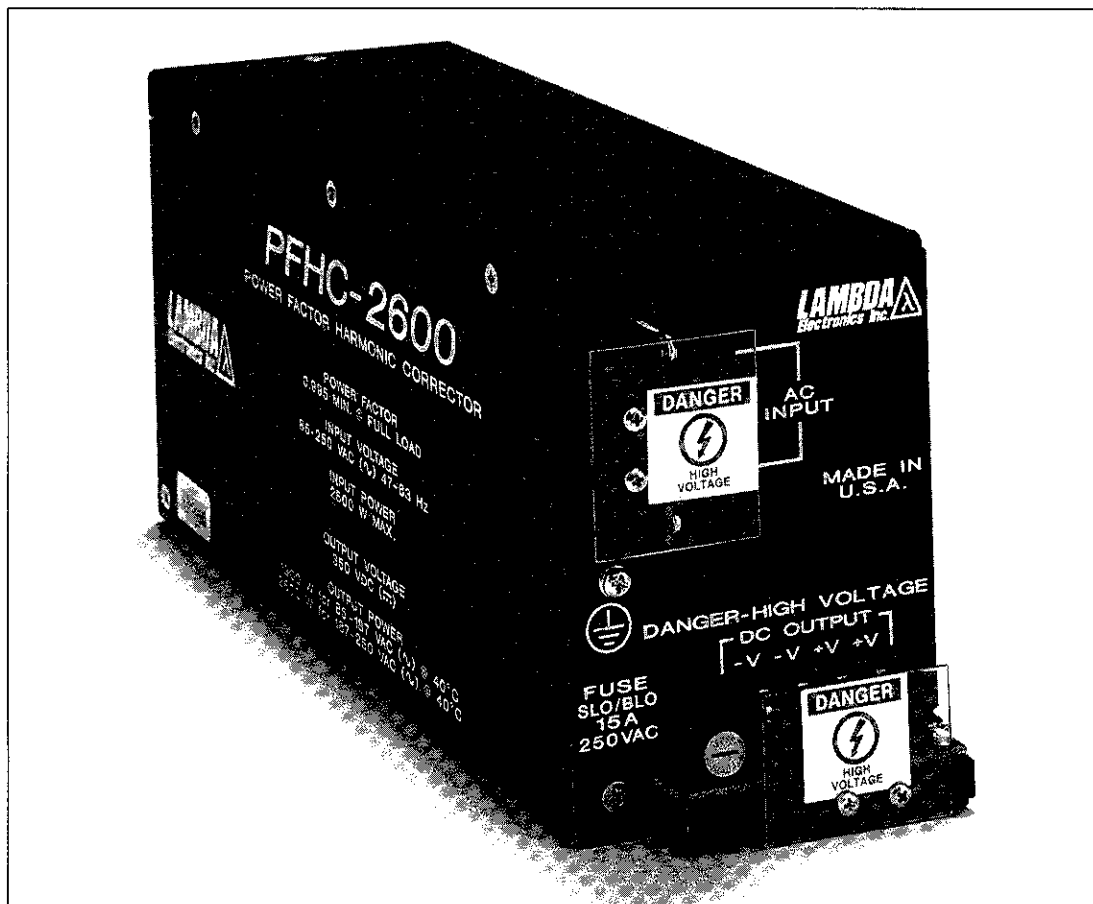


Part I – AC-to-DC Power Supplies

LAMBDA'S PFHC SERIES



0.995 Power Factor and Harmonic Correction Per IEC 555-2

High power factor and low harmonic distortion are requirements in many of today's electronic applications – from computers and telecommunications, to test equipment. These specifications will become even more important pending the adoption of IEC 555-2 in Europe. Lambda's PFHC-2600 bulk power factor correction module with 0.995 power factor and harmonic distortion per IEC 555-2 limits, is designed to meet worldwide power requirements. The PFHC-2600 is used in series with the input of Lambda's switching power supplies, providing a fully tested solution with the high quality that has made Lambda the power supply industry leader. These characteristics combined with wide range 85-250VAC input provide a truly worldwide power solution for a host of applications.

PFHC SERIES SPECIFICATIONS

Ratings Table

Input (VAC)	Max Power At Operating Temperature of (W)			Price Per Delivered Quantity 1	Package Model
	40°C	50°C	60°C		
85-186	1300	1105	845	\$760	PFHC-2600
187-250	2600	2210	1690		

*Contact the Lambda factory for quantity pricing.

EMI

The PFHC-2600 includes integral EMI filtering to facilitate system conformance to FCC Docket 20780 Part 15, Subpart J, Class A, and VDE 0871 Class A.

AC Input

line 85 to 250VAC wide range input,
47-63 Hz.
power factor 0.995 minimum power factor at full
load.
harmonic distortion Per IEC 555-2 Class A limits.
leakage current Less than 3.5mA.

Efficiency

88% minimum with input from 85 to 186VAC.
93% minimum with input from 187 to 250VAC.

Power Factor

Power factor of 0.995 minimum at full load.

Harmonic Distortion

Worst case total harmonic distortion less than 10% at full load.
Harmonic distortion complies with IEC 555-2 limits.

DC Output

350VDC \pm 3%. Suitable for input to Lambda's LZ, LR, LF and
UHD-300 Series Power Supplies.

Regulated Voltage

regulation, line 3.0% for line changes from 85 to
250VAC and 250 to 85VAC.
regulation, load 3.0% for load changes from no load
to full load and full load to no load.
ripple and noise 30 Volts pk-pk

Output Power

1300 Watts for 85-186VAC input.
2600 Watts for 187-250VAC input.

In-rush Limiting

The turn on in-rush current will not exceed 40 Amps peak.
(Not including the in-rush of power supplies connected to the
PFHC-2600.)

Overload Protection

Short circuit protection is provided via externally accessible fuse.

Leakage Current

The leakage current of the PFHC-2600 is 3.5mA maximum.

Input Transient Protection

Input transient protection is per IEEE-587 Class A for branch
circuits.

Fusing

Line fuse removes the PFHC from the line in the event of a short in
the input circuitry.

Isolation

Input to ground isolation is 1760 VRMS

Cooling

The PFHC is fan cooled via an integral high quality ball bearing
fan.

Operating Temperature

Continuous duty from 0°C to +60°C with suitable derating above
40°C.

Storage Temperature

-55°C to +85°C.

Input, Output and Signal Connections

AC PCB mounted barrier strip.
Chassis ground Pem nut in chassis.
DC output 4 section PCB mounted barrier strip
for multiple connections.

Mounting

One mounting surface, multiple mounting positions.

Fungus Proofing

Unit is inherently fungi inert.

Finish

Unit is painted black with white screening.

Physical Data

Package Model	Lbs. Net	Lbs. Ship	Size Inches
PFHC-2600	6.75	8	3.5 x 4.75 x 11

Guaranteed For 3 Years

Three year guarantee includes labor as well as parts. Guarantee
applies to operation at full published specifications at the end of
three years.

Mechanical Drawing

