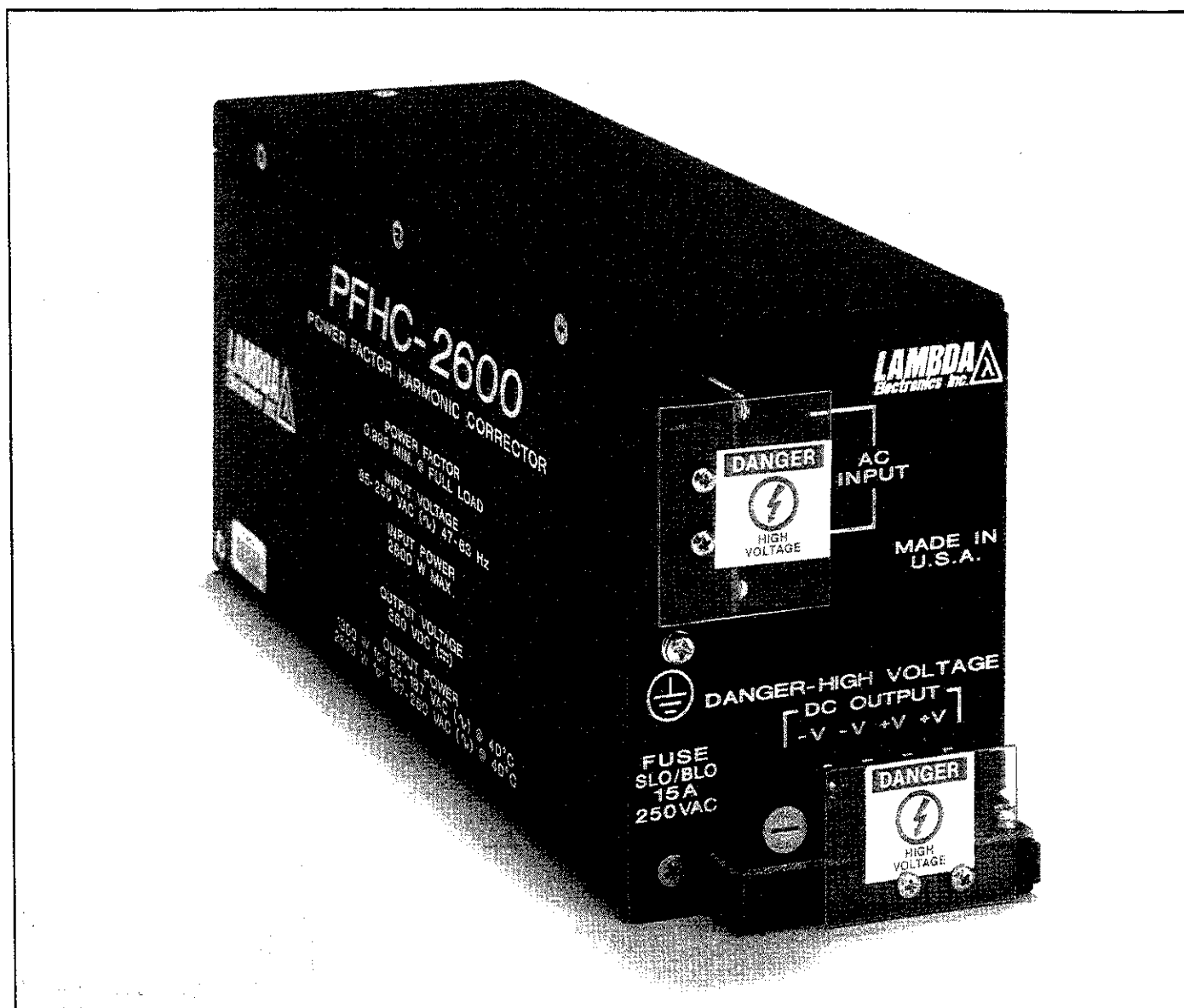


LAMBDA'S INDUSTRIAL PFHC SERIES



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 specs will become even more important pending the adoption of IEC 555-2 in Europe. Lambda's new PFHC-2600 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.

- 2600W @ 187–250VAC input.
- 1300W @ 85–186VAC input.
- Auto selectable AC input.
- Worldwide conducted EMI compliance.
- Ideal for use with Lambda's LZ, LR, LF and UHD Series power supplies.
- Grade 1 design.

PART IA—AC-TO-DC SWITCHING POWER SUPPLIES

LAMBDA'S INDUSTRIAL PFHC SERIES

INPUT (VAC)	MAX POWER AT OPERATING TEMPERATURE OF (W)			COMPLETE MECH. SPEC. PG.	DIMENSIONS	PRICE QTY. 1	MODEL
	40°C	50°C	60°C				
85-186	1300	1105	845	167	3.5 × 4.75 × 11	\$760	PFHC-2600
187-250	2600	2210	1690				

*Contact the Lambda factory for quantity pricing.

DC OUTPUT

350VDC ± 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

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.

OPERATING TEMPERATURE

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

STORAGE TEMPERATURE

-55°C to +85°C.

OVERLOAD PROTECTION

Short circuit protection is provided via externally accessible fuse.

FUSING

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

COOLING

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

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.)

NOTE: Specifications apply for PFHC-2600 when used with Lambda Power Supplies.

OUTPUT POWER

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

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.

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.

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.

ISOLATION

Input to ground isolation is 1760 VRMS

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.

PHYSICAL DATA

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

FINISH

Unit is painted black with white screening.

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.

PART V—MECHANICAL DRAWINGS

PFHC SERIES AND LAMBDA CARD LI SERIES

PFHC Series

