

Medical Grade AC/DC Power Supply With PFC

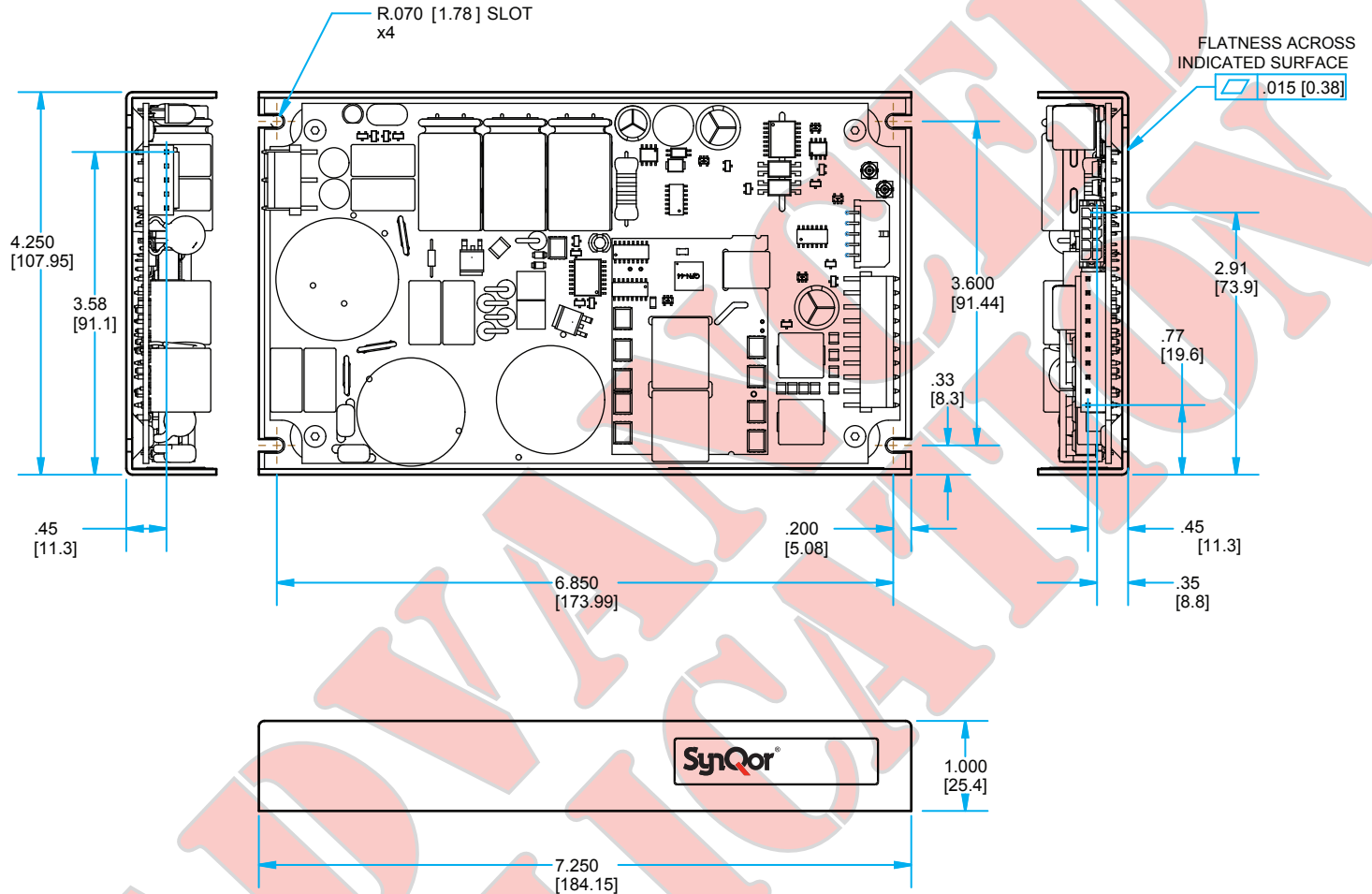
85-264Vrms Input Voltage	12/24/48V Fully Regulated Output	400W Output Continuous	>400W Output Transient	91% Full Load Efficiency
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Product Features

- High efficiency (91% for 48Vout Model at 400W)
- Low cost design
- Universal input voltage range (85-264 Vrms)
- Fully regulated output (semi-regulated available)
- Active PFC; EN61000-3-2 compliant
- Low leakage; EN60601-1 compliant
- Low noise; EN55011 / EN55022 Class B compliant
- No fan – heat removal via flat side
- Over-current, over-voltage, and over-temp protection
- DC Power Good / AC Power Good signals
- Remote enable input (normally on/off selectable)
- Thin form factor 4.25" x 7.25" x 1"
- RoHS 6/6 compliant
- 5 V (50mA) standby output

MECHANICAL DRAWINGS

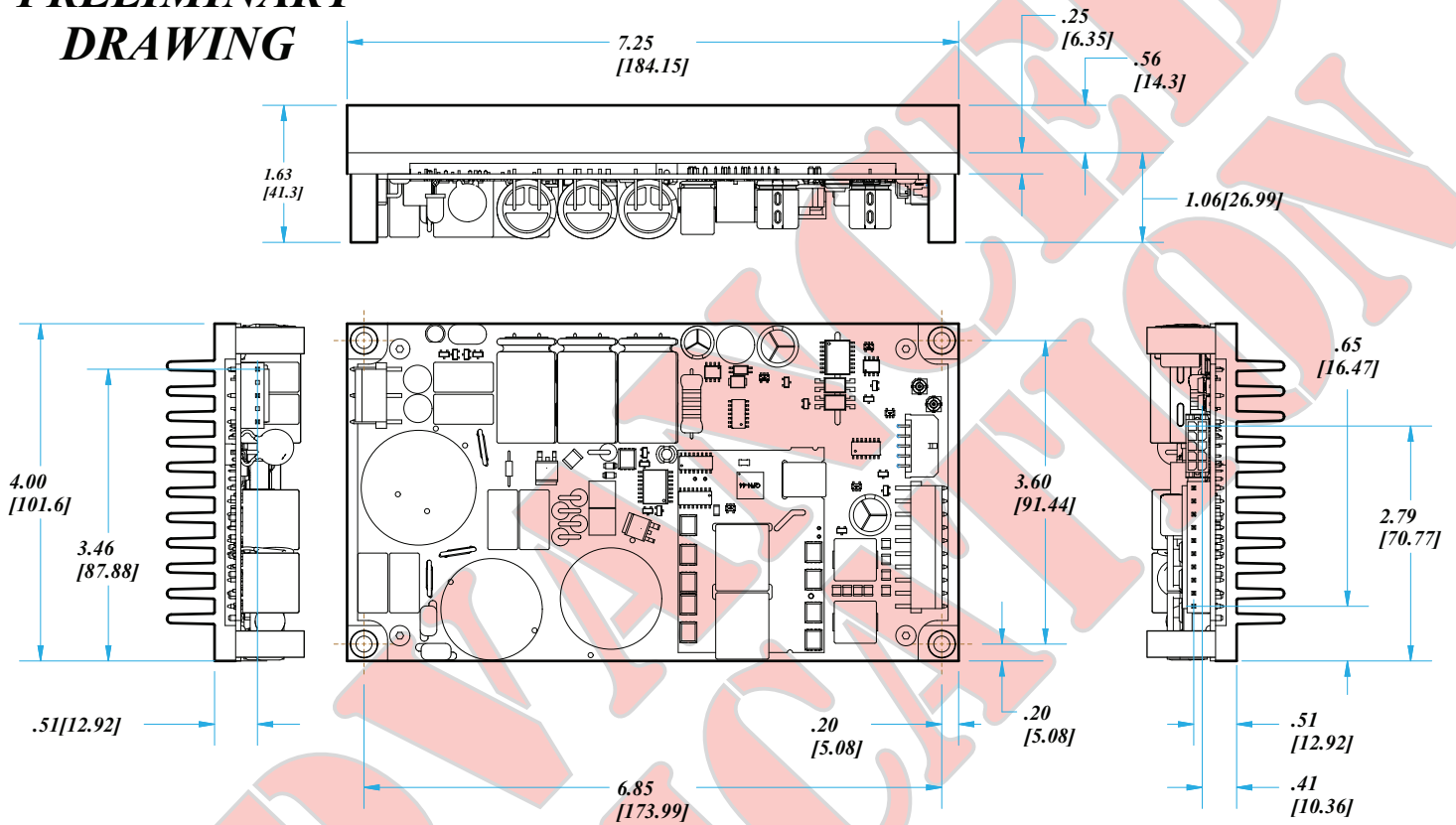


NOTES

1. Recommended screw tightening torque of 6in. lbs
2. Undimensioned components are shown for visual reference only
3. All dimensions in inches [mm]
 Tolerances: x.xx in \pm 0.02
 x.xxx in \pm 0.010

HEATSINK MECHANICAL DRAWINGS

PRELIMINARY DRAWING



NOTES

1. Recommended screw tightening torque of 6in. lbs
2. Undimensioned components are shown for visual reference only
3. All dimensions in inches [mm]
 Tolerances: x.xx in ± 0.02
 x.xxx in ± 0.010

PART NUMBERING SYSTEM

The part numbering system for SynQor's ACuQor AC/DC power supplies follows the format shown in the table below. Not all combinations make valid part numbers, please contact SynQor for availability.

Family	Output Power	Grade	Range	Output Voltage	Package Type	Thermal Design	Options
AQ: ACuQor series of AC-DC semi-regulated output power supplies	0400: 400W	M: (Medical) I: (Industrial)	U: Universal (85-264 VRMS)	12: 12V 24: 24V 48: 48V	C: 1 unit (4.25"x7.25")	U: U channel encased H: Heatsink	TBD

Example: AQ0400MU24CUxx

ACCESSORIES

SynQor offers a series of assemblies that can be ordered according to the table below. Mechanical drawings for these accessories are available for download in pdf format from the SynQor website.

Part Number	Description
AQ-CBL-INPUT1C	Input mating cable with pre-stripped wire ends (36" long)

APPLICATION NOTES

A variety of application notes and technical white papers can be downloaded in pdf format from the SynQor website.

[Online Application Notes](#)
[Online Library of Technical White Papers](#)
[SynQor website.](#)

PATENTS

SynQor holds the following U.S. patents, one or more of which apply to each product listed in this document. Additional patent applications may be pending or filed in the future.

5,999,417	6,222,742	6,545,890	6,577,109	6,594,159	6,731,520	6,894,468
6,896,526	6,927,987	7,050,309	7,072,190	7,085,146	7,119,524	7,269,034
7,272,021	7,272,023	7,558,083	7,564,702	7,765,687	7,787,261	8,023,290

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Warranty

SynQor offers a three (3) year limited warranty. Complete warranty information is listed on our website or is available upon request from SynQor.

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