

**Power Supplies**

|                                   | Model Number | DC Output Voltage | Output Current | Output Power | Isolation |
|-----------------------------------|--------------|-------------------|----------------|--------------|-----------|
| <b>120 VAC Single Phase Input</b> | PS300W24     | 24 VDC            | 12 A           | 300 W        | YES       |
|                                   | PS300W48     | 48 VDC            | 6 A            | 300 W        | YES       |
|                                   | PS300W72     | 72 VDC            | 3 A            | 220 W        | YES       |
|                                   | PS300W96     | 96 VDC            | 3 A            | 300 W        | YES       |
| <b>240 VAC Single Phase Input</b> | PS300W170    | 170 VDC           | 15 A           | 2550 W       | NO        |
|                                   | PS300H24     | 24 VDC            | 12 A           | 300 W        | YES       |
|                                   | PS300H48     | 48 VDC            | 6 A            | 300 W        | YES       |
|                                   | PS300H72     | 72 VDC            | 3 A            | 220 W        | YES       |
|                                   | PS300H96     | 96 VDC            | 3 A            | 300 W        | YES       |



**PS300x24,48,72,96**



**PS300W170**

**Note: AC Power cord included with 120 VAC input models only**

**Description**

The PS300 unregulated power supplies have been designed to complement **ADVANCED Motion Controls'** servo drives and to provide the user with a complete solution to single and multi-axis DC drive applications. These unregulated DC power sources are an excellent solution for most applications as **ADVANCED Motion Controls'** servo drives compensate for power supply output variations and AC ripple components.

PS300 Series power supplies are designed to provide the best cost-per-watt value. They have multiple primary windings for either 120 VAC (PS300W) or 240 VAC (PS300H) 50/60 Hz operation. These power supplies feature four identical secondary windings that can be connected in series or in parallel for different output voltages and currents.

**Features**

- ▲ Multiple Primary Windings: Either 120 VAC or 240 VAC, 50/60 Hz Operation
- ▲ 24 VDC Secondary Output Winding Taps
- ▲ Small Size, Low Cost, Ease of Use
- ▲ Isolation Transformer on All Power Supply Models Except PS300W170
- ▲ Slow Blow Fuse on AC Input

**Approvals and Compliances**



Compliant with European CE for both the Class A EMC Directive 2004/108/EC on Electromagnetic Compatibility (specifically EN 61000-6-4:2007 and EN 61000-6-2:2005) and LVD requirements of directive 2006/95/EC (specifically EN 60204-1:2006), a low voltage directive to protect users from electrical shock.



RoHS (Reduction of Hazardous Substances) is intended to prevent hazardous substances such as lead from being manufactured in electrical and electronic equipment.

### SPECIFICATIONS

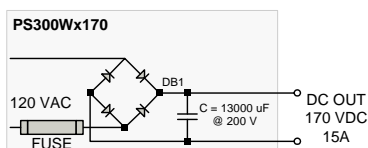
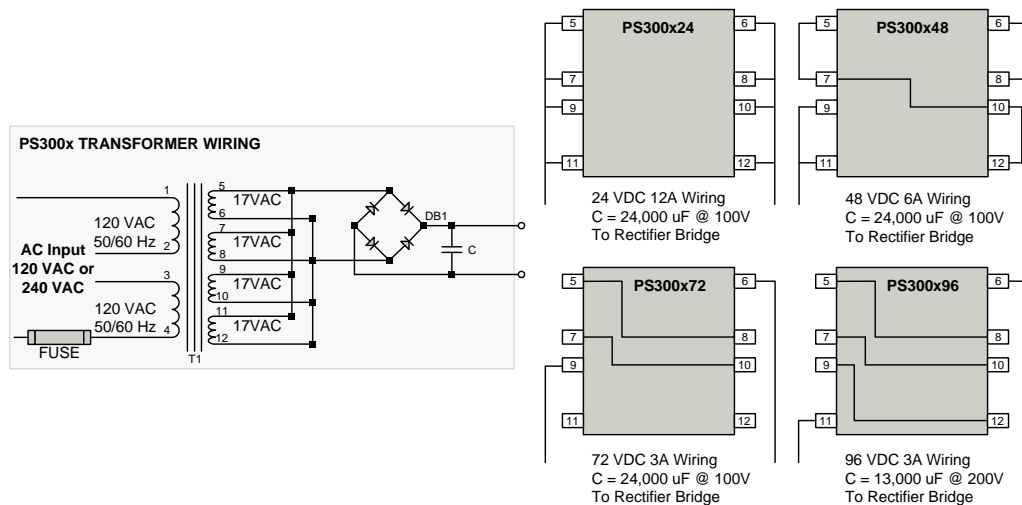
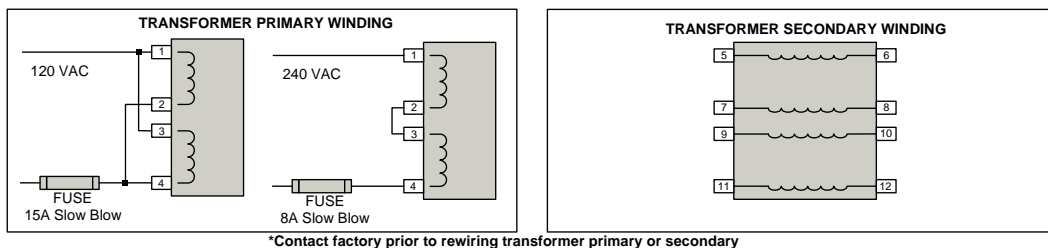
| Power Specifications (120 VAC Single Phase Power Supplies) |       |              |          |          |          |           |
|--|-------|--------------|----------|----------|----------|-----------|
| Description  | Units | PS300W24     | PS300W48 | PS300W72 | PS300W96 | PS300W170 |
| AC Supply Voltage Input                                    | VAC   | 120          |          |          |          |           |
| AC Supply Input Frequency                                  | Hz    | 50-60 Hz     |          |          |          |           |
| AC Supply Input Phases                                     | -     | Single Phase |          |          |          |           |
| Output Voltage   | VDC   | 24           | 48       | 72       | 96       | 170       |
| Current Output   | A     | 12           | 6        | 3        | 3        | 15        |
| Power Specifications (240 VAC Single Phase Power Supplies) |       |              |          |          |          |           |
| Description  | Units | PS300H24     | PS300H48 | PS300H72 | PS300H96 |           |
| AC Supply Voltage Input                                    | VAC   | 240          |          |          |          |           |
| AC Supply Input Frequency                                  | Hz    | 50-60 Hz     |          |          |          |           |
| AC Supply Input Phases                                     | -     | Single Phase |          |          |          |           |
| Output Voltage   | VDC   | 24           | 48       | 72       | 96       |           |
| Current Output   | A     | 12           | 6        | 3        | 3        |           |

| Mechanical Specifications       |          |   |
|---------------------------------|----------|---|
| Description                     | Units    | PS300 Series                                  |
| AC Input Connector <sup>1</sup> | -        | AC Power Cord                                 |
| DC Output Connector             | -        | Flying Leads                                  |
| Size (H x W x D) <sup>2</sup>   | mm (in)  | 218.44 x 102.87 x 139.70 (8.60 x 4.05 x 5.50) |
| Weight                          | kg (lbs) | 4.53 (10)                                     |

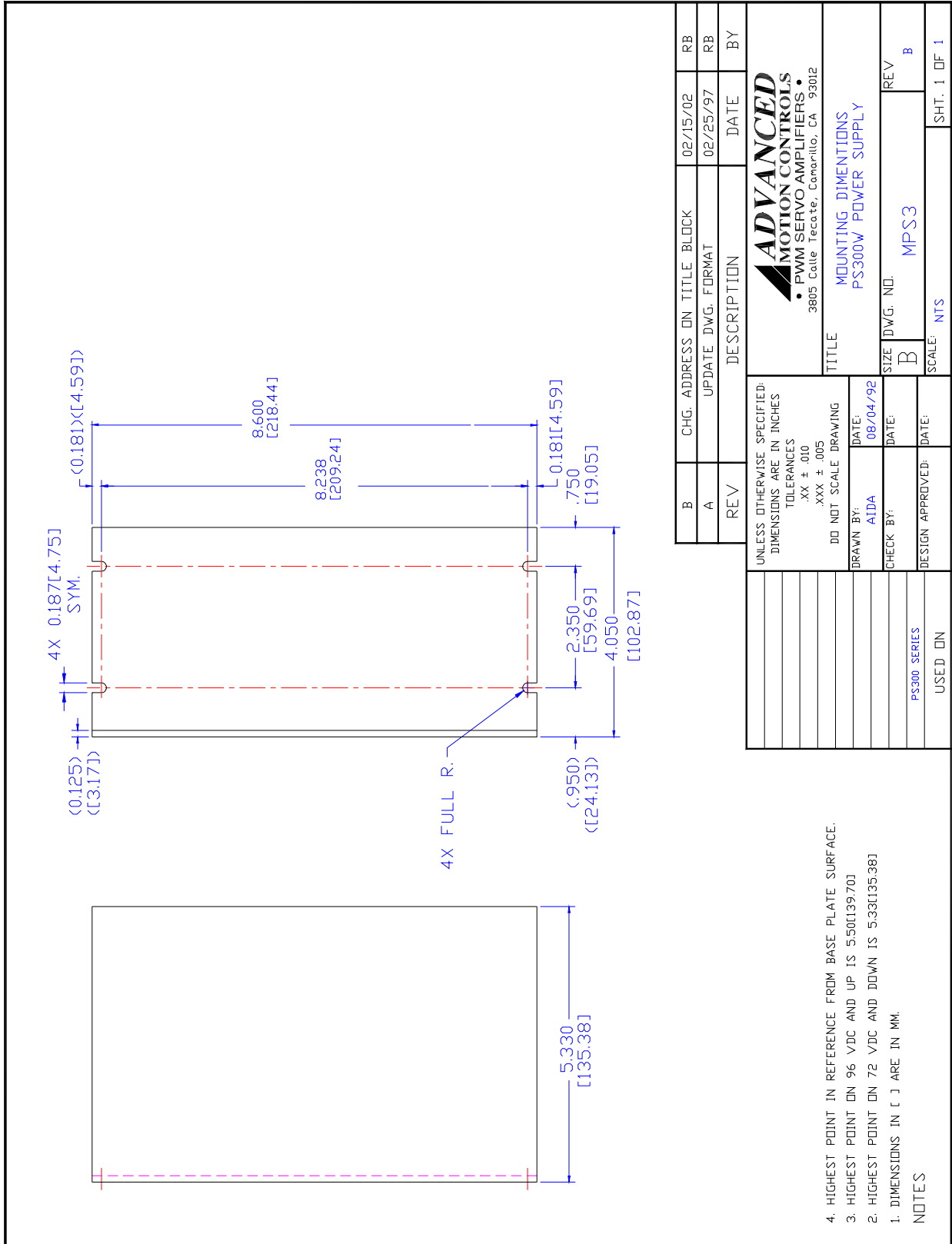
**Notes**

- Power cord not included with 240 VAC input models.
- Worst case depth dimension. Height varies with model number. See mounting dimensions for additional details.

### BLOCK DIAGRAMS



**MOUNTING DIMENSIONS**



## CUSTOMIZATION INFORMATION

ADVANCED Motion Controls' products are available in many configurations. All models listed in the selection tables of the website are readily available, standard product offerings.

ADVANCED Motion Controls also has the capability to promptly develop and deliver specified products for OEMs with volume requests. Our Applications and Engineering Departments will work closely with your design team through all stages of development in order to provide the best servo drive solution for your system. Equipped with on-site manufacturing for quick-turn customs capabilities, ADVANCED Motion Controls utilizes our years of engineering and manufacturing expertise to decrease your costs and time-to-market while increasing system quality and reliability. Feel free to contact Applications Engineering for further information and details.

### Examples of Customized Products

- ▲ Optimized Footprint
- ▲ Private Label Software
- ▲ OEM Specified Connectors
- ▲ No Outer Case
- ▲ Increased Current Resolution
- ▲ Increased Temperature Range
- ▲ Custom Control Interface
- ▲ Integrated System I/O
- ▲ Tailored Project File
- ▲ Silkscreen Branding
- ▲ Optimized Base Plate
- ▲ Increased Current Limits
- ▲ Increased Voltage Range
- ▲ Conformal Coating
- ▲ Multi-Axis Configurations
- ▲ Reduced Profile Size and Weight

### Available Accessories

ADVANCED Motion Controls offers a variety of accessories designed to facilitate drive integration into a servo system. Visit [www.a-m-c.com](http://www.a-m-c.com) to see which accessories will assist with your application design and implementation.

