

**Description**

The PS16 unregulated power supplies have been designed to complement **ADVANCED Motion Controls'** servo drives. Model PS16 is mounted on a base plate for multi-axis applications (mounting space provided on base plate for up to 6 drives). Model PS16-L is mounted on an "L"-shaped bracket for single-axis 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.

PS16 Series power supplies are designed to provide the best cost-per-watt value. They have multiple windings for either 120 VAC (PS16L) or 240 VAC (PS16H) 50/60 Hz operation. These power supplies incorporate either a 30V, 36V or a 40V output transformer. The 30V and 40V transformers have four identical secondary windings and the 36V transformers have two identical secondary windings. These windings can be connected in series or in parallel for different output voltages and currents.

**Power Supplies**



**PS16x30,36,40,60,72,80**



**PS16x30,36,40,60,72,80-L**



**PS16x120,160**



**PS16x120,160-L**

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

**Features**

- ▲ Multiple Primary Windings: Either 120 VAC or 240 VAC, 50/60 Hz Operation
- ▲ 30 VDC, 36 VDC or 40 VDC Secondary Output Winding Taps
- ▲ Isolation Transformer on All Power Supply Models
- ▲ Small Size, Low Cost, Ease of Use

**Agency Approvals**

	<p>Compliant with European EMC Directive 2014/30/EU on Electromagnetic Compatibility (specifically EN 61000-6-4:2007/A1:2011 for Emissions, Class A and EN 61000-6-2:2005 for Immunity, Performance Criteria A).</p> <p>LVD requirements of Directive 2014/35/EU (specifically, EN 60204-1:2006/A1:2009, a Low Voltage Directive to protect users from electrical shock).</p>
	<p>The RoHS II Directive 2011/65/EU restricts the use of certain substances including lead, mercury, cadmium, hexavalent chromium and halogenated flame retardants PBB and PBDE in electronic equipment.</p>

**Power Supplies**

	<b>Model Number</b>	<b>DC Output Voltage</b>	<b>Output Current</b>	<b>Output Power</b>	<b>Isolation</b>	
<b>120 VAC Single Phase Input</b>	PS16L36	36 VDC	22 A	800 W	YES	
	PS16L40	40 VDC	20 A	800 W	YES	
	PS16L40-L	40 VDC	20 A	800 W	YES	
	PS16L60	60 VDC	13 A	800 W	YES	
	PS16L60-L	60 VDC	13 A	800 W	YES	
	PS16L72	72 VDC	11 A	800 W	YES	
	PS16L72-L	72 VDC	11 A	800 W	YES	
	PS16L80	80 VDC	10 A	800 W	YES	
	PS16L80-L	80 VDC	10 A	800 W	YES	
	PS16L120-L	120 VDC	7 A	800 W	YES	
	PS16L160-L	160 VDC	5 A	800 W	YES	
	<b>240 VAC Single Phase Input</b>	PS16H30	30 VDC	27 A	800 W	YES
		PS16H30-L	30 VDC	27 A	800 W	YES
		PS16H40	40 VDC	20 A	800 W	YES
PS16H60-L		60 VDC	13 A	800 W	YES	
PS16H72		72 VDC	11 A	800 W	YES	
PS16H72-L		72 VDC	11 A	800 W	YES	
PS16H80		80 VDC	10 A	800 W	YES	
PS16H80-L		80 VDC	10 A	800 W	YES	
PS16H120-L		120 VDC	7 A	800 W	YES	
PS16H160		160 VDC	5 A	800 W	YES	
PS16H160-L	160 VDC	5 A	800 W	YES		

**SPECIFICATIONS**

Power Specifications (120 VAC Single Phase Power Supplies)								
Description	Units	PS16L36	PS16L40	PS16L60	PS16L72	PS16L80	PS16L120	PS16L160
AC Supply Voltage Input	VAC	120						
AC Supply Input Frequency	Hz	50-60 Hz						
AC Supply Input Phases	-	Single Phase						
Output Voltage	VDC	36	40	60	72	80	120	160
Current Output	A	22	20	13	11	10	7	5

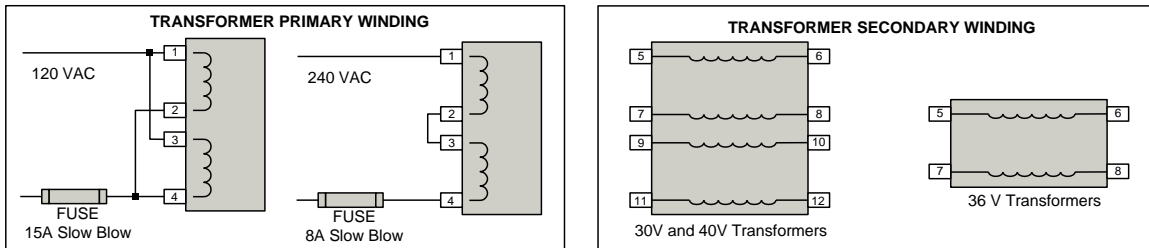
Power Specifications (240 VAC Single Phase Power Supplies)								
Description	Units	PS16H30	PS16H40	PS16H60	PS16H72	PS16H80	PS16H120	PS16H160
AC Supply Voltage Input	VAC	240						
AC Supply Input Frequency	Hz	50-60 Hz						
AC Supply Input Phases	-	Single Phase						
Output Voltage	VDC	30	40	60	72	80	120	160
Current Output	A	27	20	13	11	10	7	5

Mechanical Specifications			
Description	Units	PS16	
AC Input Connector <sup>1</sup>	-	AC Cord Supplied	
DC Output Connector	-	Screw Terminals	
Size (H x W x D) <sup>2</sup>	mm (in)	330.2 x 266.7 x 152.4 (13.00 x 10.50 x 6.00)	
Weight	kg (lbs)	11.3 (25)	

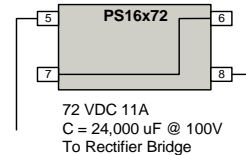
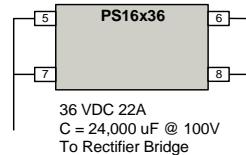
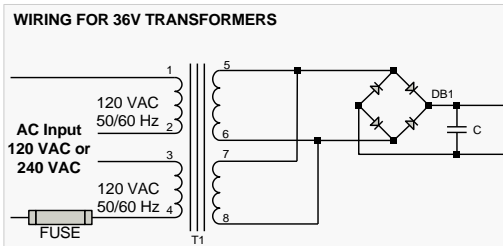
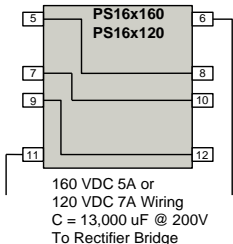
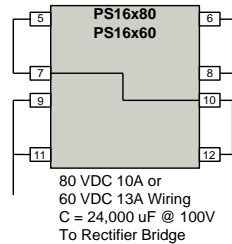
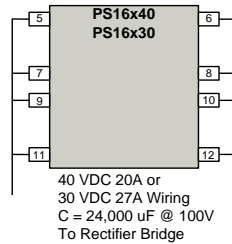
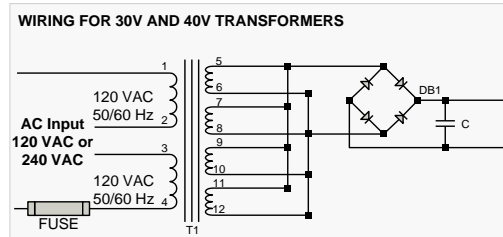
**Notes**

1. AC Cord included with 120 VAC input models only.
2. Worst case depth dimension. Depth varies with model number. See mounting dimensions for additional details.

**BLOCK DIAGRAMS**

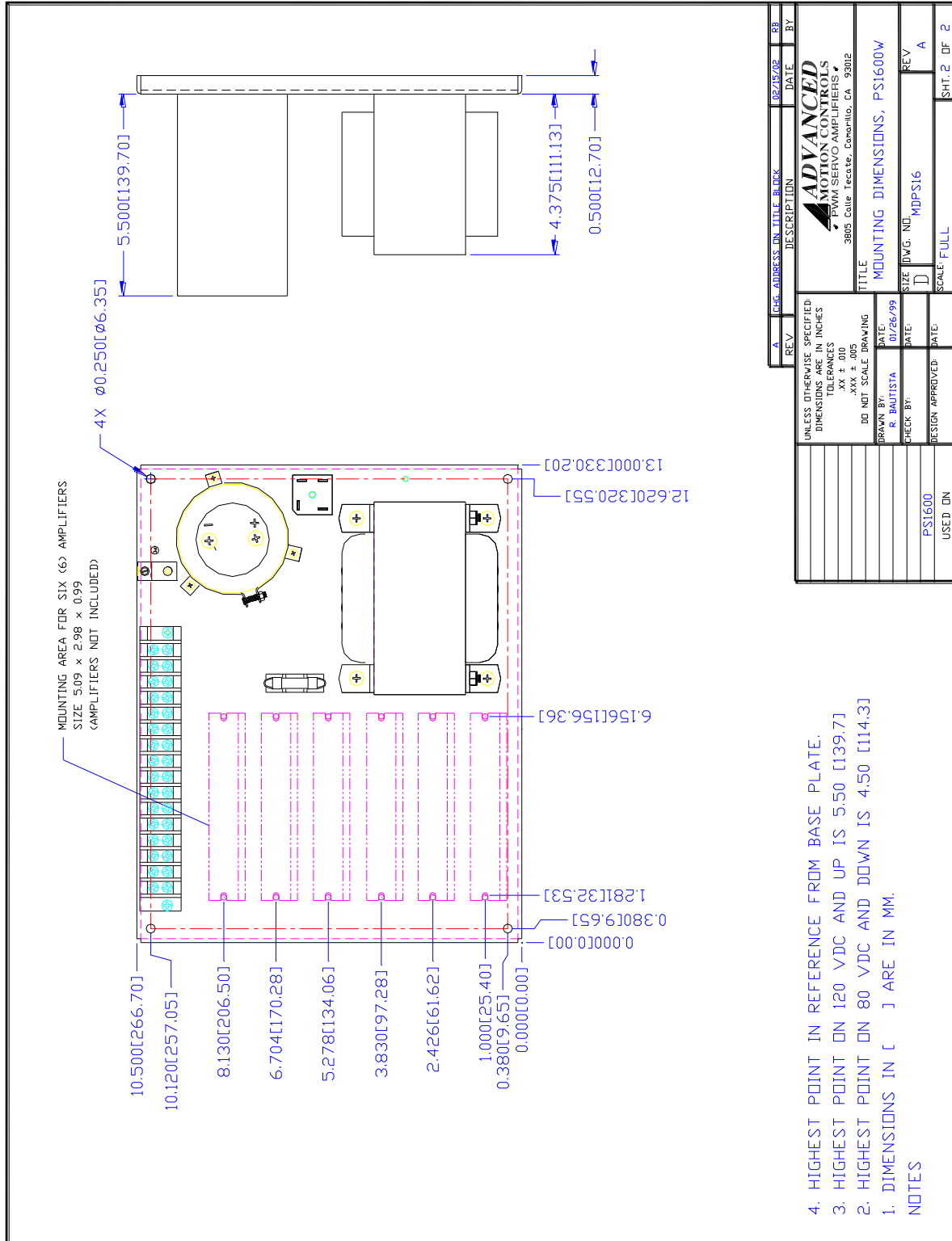


\*Contact factory prior to rewiring transformer primary or secondary

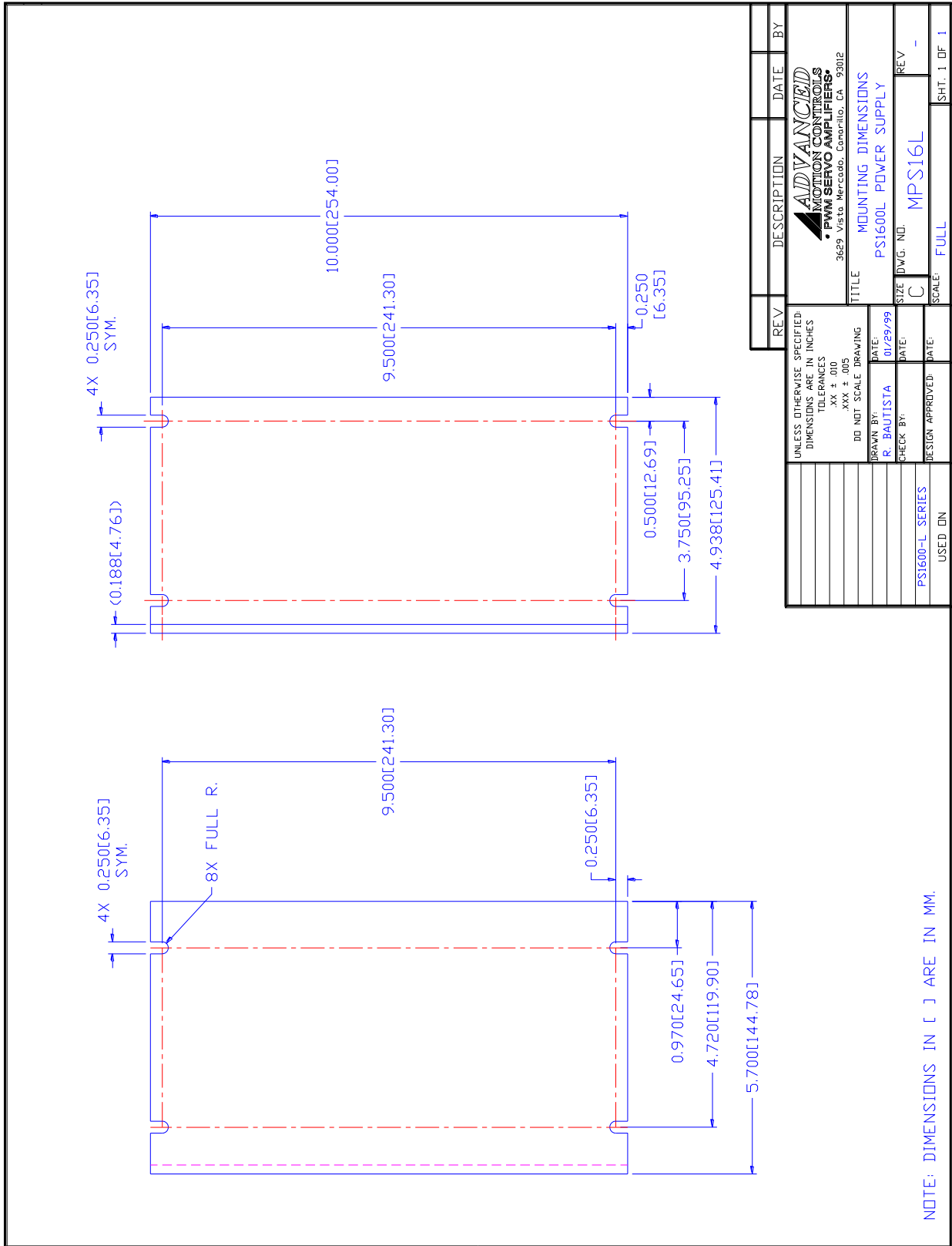


**MOUNTING DIMENSIONS**

**Mounting Dimensions for PS16**



**Mounting Dimensions for PS16-L**



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



All specifications in this document are subject to change without written notice. Actual product may differ from pictures provided in this document.