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3034-PM, 7/20/01

INTRODUCTION

This information manual provides the product specifications, wiring diagram and mounting information for the DynaPower 3034-PM power module.

The DynaPower 3034-PM supplies 30 amps continuous current and 60 amps peak current at 340 VDC for a total of 10,200 watts of continuous power. The DynaPower 3034-PM is an off-line rectifier-filter power source with a built-in shunt regulator designed to power as many as six servo amplifiers simultaneously.

ELECTRICAL CAUTIONS

Make sure that all voltages and tests are made with battery powered or electrically isolated instruments.

Make sure that the total continuous output current supplied to all connected amplifiers does not exceed 30 amps continuous and that the maximum continuous output current supplied to each individual output does not exceed 12 amps.

SPECIFICATIONS

POWER MODULE 3034-PM

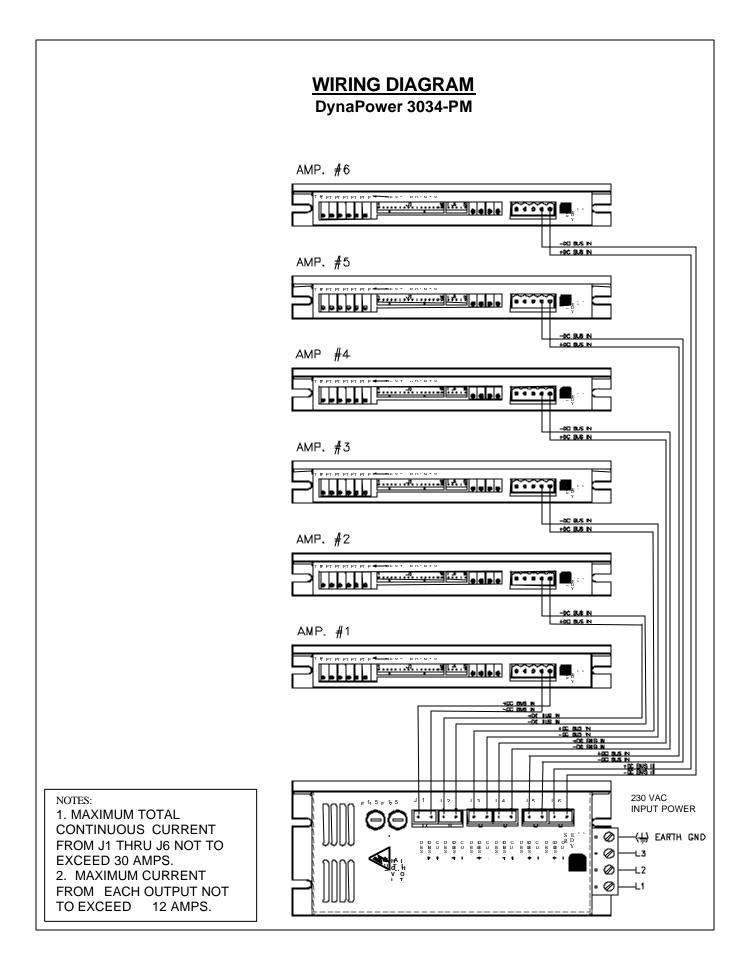
Performance Characteristics		
Output Voltage (1.4 times input AC)	200 to 360 vdc	
Continuous Output Current	30 amps	
Peak Output current	60 amps (2 seconds)	
Bus Capacitance	2350 microfarads	
Internal Shunt Regulator	220 W continuous, 10.6 kw peak for .02 seconds (activates at 400 vdc)	
Input Power Requirements		
Input Voltage	140 to 260 VAC, 3 phase or 1 phase, 50 – 60 Hz	
Physical Characteristics		
Module Dimensions (L x W x H)	7.6 in. x 3.2 in. x 5.4 in.	
Weight	4.0 lbs	
Ambient Temperature – Operating	0 °C to 50 °C	
Maximum Heat Sink Temperature	80 °C	
Relative Humidity	5 - 95% non-condensing	
I / O Connections		
AC Connector	4 ea. screw terminals (line 1, line 2, line 3, earth ground)	
DC Output	6 ea. 2 pin screw terminal plugs (+ DC, -DC)	

CONNECTOR INFORMATION

J1 thru J6

Pin	Label	Description
1	+ DC BUS OUT	Positive Output Voltage
2	- DC BUS OUT	Output Voltage Return

J7		
Pin	Label	Description
1	Line 1	AC Line input
2	Line 2	AC Line input
3	Line 3	AC Line Input
4	Earth Ground	Chassis Ground



TROUBLESHOOTING

The DynaPower 3034-PM has five fuses:

F1 and F2 are 3 amp fuses that protect the shunt regulator resistors and transistors. These fuses are located near the output connector J1 and are easily accessible.

F3, F4 and F5 are 30 amp fuses that are in series with the AC line inputs and protect all bus supply components as well as components connected to the bus. These fuses are located inside the 3034-PM power module and are accessible by removing the cover of the module.

