

# DPMLP601 - Integrated Driver / Controller

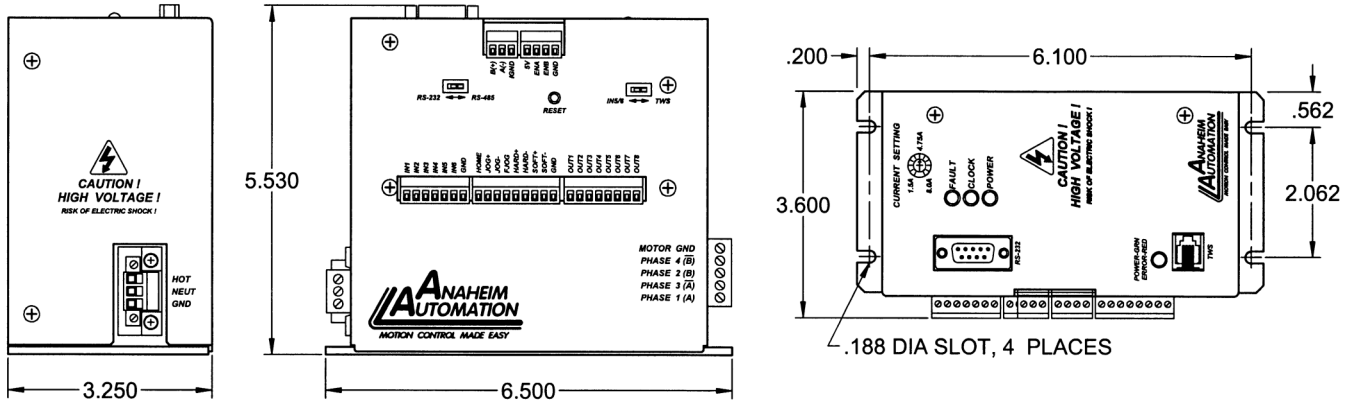


## FEATURES

- Line Powered Microstep Driver Pack
- Integrated Programmable Controller
- Easy to Use Windows Software Included
- 24V Compatible Inputs
- 0-5V Analog Input for Speed or Distance
- 8 Amp Max Current Output
- Smooth Microstepping Resolution
- Up to 500 Watt Peak Power
- Compact and Rugged Construction



## DIMENSIONS



## DESCRIPTION

Good things do come in small packages! The DPMLP601 integrates a powerful microstepping driver and an easy-to-use programmable controller, giving you everything you need in one compact solution. Say good-bye to bulky power supplies and unnecessary wiring for good.

The DPMLP601 contains the popular driver, the MLP08641, which is line powered, giving outstanding "servo like" performance. The driver can generate 100% more torque and power than typical 80VDC stepper drivers and is able to accelerate the motor faster due to the higher bus voltage. This increase in performance will

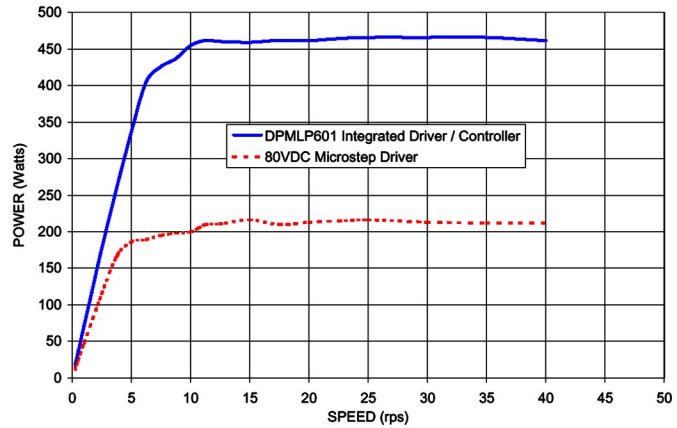
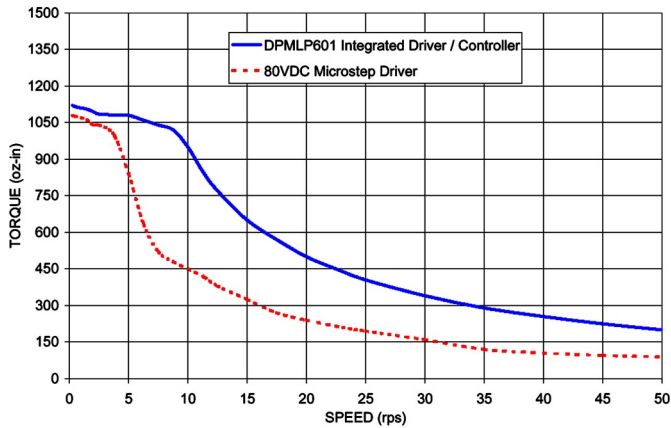
shorten any system's cycle time while increasing your overall productivity rate.

The DPMLP601 programming capabilities gives you the flexibility to develop motion routines, turn on discrete outputs, monitor inputs, and much more. The single axis controller contains 2KB of nonvolatile stored programming space and encoder feedback. The DPMLP601 provides independent control of a stepper motor from a PC's serial port or any RS232/RS485 machine controller serial port. The easy-to-use SMC60WIN software can be used to directly control motion and create your programs with a graphical interface.

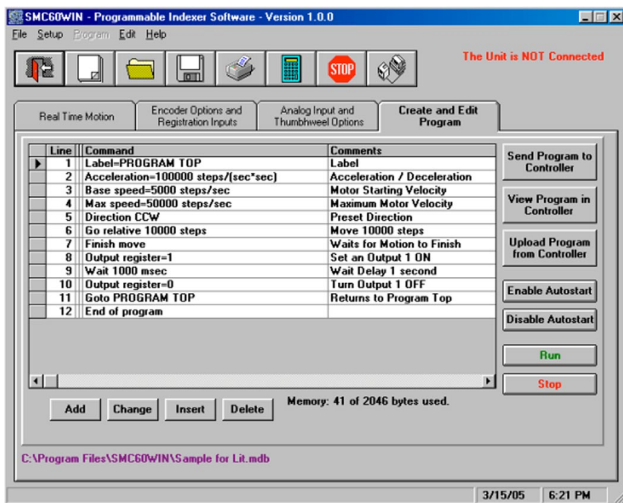
### Ideal Applications:

Automated machinery or processes that involve food, cosmetic, or medical packaging, labeling, or tamper-evident requirements, cut-to-length applications, electronic assembly, robotics, factory automation, special filming and projection effects, medical diagnostics, inspection and security devices, conveyor and material handling systems, metal fabrication (CNC machinery), pump flow control, XY and rotary tables, equipment upgrades or wherever precise positioning or speed control is required.

## Comparison Curves: DPMLP601 vs. 80VDC Microstep Driver



## Includes Easy-Use-Software



## Specifications

- Power Requirements:** 90-132VAC, 50/60Hz (500W Peak Power)
- Output Current Range:** 1.5 - 8.0 Amps
- Microstepping Resolution:** 1000 Steps/Revolution (Div-by-5)
- Nonvolatile Memory:** 2KB of stored programming space
- Baud Rate:** 38,400 Baud, Fixed
- Data Format:** Half duplex, 1 start bit, 8 data bits, no parity, 1 stop bit
- Communication Protocol:** RS232 or RS485 selectable
- Encoder Feedback:** Quadrature, CHA, CHB, 5VDC Signal Compatibility
- Controller Outputs:** 8 Programmable Outputs, Open Drain Type, 40V, 100mA, +5VDC Output, 50mA
- Controller Inputs:** 6 Programmable Inputs  
 Logic 0: 0 - 0.8VDC  
 Logic 1: 3.5 - 24VDC  
 Analog Input: 0 - 5VDC
- Pulse Output Range:** 1 - 50KHz, 10µs Negative Going Pulse Width

## Additional Ordering Information

Model #	Number of Axis	Current Range (A)	Description	Input Voltage	Power (Watt)
MLP08641	1	1.5 - 8.0	Line Powered Microstepping Bipolar Driver	90 - 132 VAC	500
PCL601	1	-	Programmable Controller for motion control, I/O programmability, serial communication.	8 - 24 VDC	-
TWS7	-	-	Seven decade thumbwheel switch for entering distance via external interface. (Accessory)	-	-
485SD9TB	-	-	RS232 to RS485 converter for multiple axes communication. (Accessory)	-	-
AA9MFC-6	-	-	Serial port cable, required to communicate to PC. 6ft long. (Accessory)	-	-