The DPMLA601 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 DPMLA601 contains the popular MLA10641 stepper motor driver 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 DPMLA601 provides independent control of a stepper motor from a PC’s serial port or any RS232/RS485 machine controller serial port. The free, easy-to-use SMC60WIN software which can be downloaded from our website, is equipped with a graphical interface that can be used to directly control motion or create stored programs for complete machine control.

**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.
Power Requirements: 90-132VAC, 50/60 Hz

Output Current Range: 2.0 - 10.0 Amps

Microstepping Resolution: 200 - 12,800 steps/rev
(1, 2, 5, 8, 10, 16, 32 and 64 Selectable Step Operations)

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 Feed: 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

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
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<tbody>
<tr>
<td>TWS7</td>
<td>Seven decade thumbwheel switch for entering distance via external interface. (Accessory)</td>
</tr>
<tr>
<td>485SD9TB</td>
<td>RS232 to RS485 converter for multiple axes communication. (Accessory)</td>
</tr>
<tr>
<td>485USBTB-2W</td>
<td>USB to RS485 converter for multiple axes communication. (Accessory)</td>
</tr>
<tr>
<td>AA9MFC-6</td>
<td>Serial port cable, required to communicate to PC. 6ft long. (Accessory)</td>
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