

PROGRAMMABLE LOGIC CONTROLLERS

DL05 & DL06 Family of Products

The DL05 micro PLC family includes eight different models. Each has eight inputs and six output in the base unit. The DL05 has one option card slot, which can be used to expand the I/O count, provide additional communication capability or add a real-time clock and battery back-up. The larger DL06 micro PLC family has 20 inputs and 16 output in the base unit. The DL06 has four option card slots which can be used to add I/O or provide additional communications option.

Instruction Sets

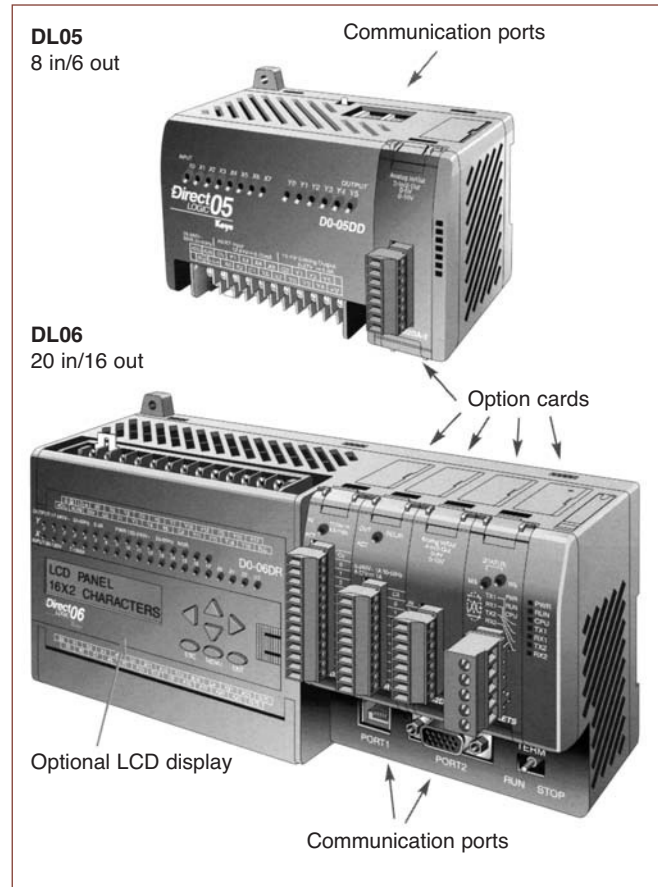
The DL05 CPU offers PID capability, high-speed counting, and the same powerful instruction set as our popular DL250 CPU. All DL05 PLCs have two built-in RS-232C communication ports that can be used for programming, operator interface, networking, etc. The DL06 CPU offer PID capability, floating point number handling, and an instruction set very similar to our new D2-260 CPU. Many powerful new instruction are included. All DL06 PLCs have two built-it communications ports that can be used for programming, operator interface, networking, etc. One of the DL06 ports is a multi-function port capable of RS232C, RS422, or RS485 communication.

Power Options

The DL05 and DL06 families have AC and DC power options. They are also offered with a variety of I/O option. You can explore the Quick Selection Guide on the next page to choose the right PLC for you application.

High-speed Inputs and Outputs

Units with DC input have selectable high-speed inputs features on three input points (DL05) or four input points (DL06). Units with DC output can use the first two output as a single bi-directional pulse output. Detailed specification for each model appear later in this section.



General Specifications	AC Powered	DC Powered
Power	110 / 220VAC (+10%, -15%), 50-60 Hz	12 / 24 VDC
Input Voltage Range	95-240VAC	12-24 VDC
Maximum Power	30VA (DL05) 40VA (DL06)	20W
Maximum Inrush Current	13A, 1 ms (240VAC)	10A < 1 ms
Storage Temperature	-4°F to 158°F (-20°C to 70°C)	
Ambient Operating Temperature	32°F to 131°F (0°C to 55°C)	
Ambient Humidity	5% - 95% relative humidity (non-condensing)	
Vibration Resistance	MIL STD 810C, Method 514.2	
Shock Resistance	MIL STD 810C, Method 516.2	
Noise Immunity	NEMA (ICS3-304)	
Atmosphere	No corrosive gases	

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Quick Selection Guide

110/220 (+10% , -15%) VAC Power Options		
DL05	<p>D0/05DR 8 DC inputs Three inputs are filtered inputs, can also be configured as a single 5kHz high-speed counter, interrupt input, or pulse catch input 6 Relay outputs, 2A / point</p>	<p>D0-06DD1 20DC inputs Three inputs are filtered inputs, can also be configured as a single 7kHz high-speed counter, interrupt input, or pulse catch input 16DC outputs (sinking), 1.0A / point Two outputs can be used as a single bi-directional 10kHz pulse output</p>
<p>D0-05AA 8 AC inputs 6 AC outputs, 0.5A / point</p> <p>D0/05AD 8 AC inputs 6 DC outputs (sinking), 1.0A / point Two outputs can be used as a single bi-directional 7kHz pulse output</p> <p>D0-05AR 8 AC inputs 6 Relay outputs, 2A / point</p> <p>D0-05DA 8 DC inputs Three inputs are filtered inputs, can also be configured as a single 5kHz high-speed counter, interrupt input, or pulse catch input 6 AC outputs, 0.5A/point</p> <p>D0/05DD 8 DC inputs Three inputs are filtered inputs, can also be configured as a single 5kHz high-speed counter, interrupt input, or pulse catch input 6 DC outputs (sinking), 1.0A / point Two outputs can be used as single bi-directional 7 kHz pulse output</p>	DL06	<p>D0-06DD2 20DC inputs Three inputs are filtered inputs, can also be configured as a single 7kHz high-speed counter, interrupt input, or pulse catch input 16DC outputs (sourcing), 1.0A / point Two outputs can be used as a single bi-directional 10kHz pulse output</p> <p>D0-06DR 20DC inputs Three inputs are filtered inputs, can also be configured as a single 7kHz high-speed counter, interrupt input, or pulse catch input 16Relay outputs, 2A / point</p>
	<p>D0-06AA 20 AC inputs 16 AC outputs, 0.5A / point</p> <p>D0-06AR 20 AC inputs 16 Relay outputs, 2A / point</p> <p>D0-06DA 20 DC inputs Three inputs are filtered inputs, can also be configured as a single 7kHz high-speed counter, interrupt input, or pulse catch input 16 AC outputs, 0.5A / point</p>	

12/24 VDC Power Options		
DL05	DL06	
<p>D0/05DD-D 8 DC inputs Three inputs are filtered inputs, can also be configured as a single 5kHz high-speed counter, interrupt input, or pulse catch input 6 DC outputs (sinking), 1.0A / point Two outputs can be used as a single bi-directional 7kHz pulse output</p> <p>D0-05DR-D 8 DC inputs Three inputs are filtered inputs, can also be configured as a single 5kHz high-speed counter, interrupt input, or pulse catch input 6 Relay outputs, 2A/point</p>	<p>D0-06DD1-D 20 DC inputs Three inputs are filtered inputs, can also be configured as a single 7kHz high-speed counter, interrupt input, or pulse catch input 16 DC outputs (sinking), 1.0A / point Two outputs can be used as a single bi-directional 10kHz pulse output</p> <p>D0-06DR-D 20 DC inputs Three inputs are filtered inputs, can also be configured as a single 7kHz high-speed counter, interrupt input, or pulse catch input 16 Relay outputs, 2A / point</p>	<p>Note: high speed outputs cannot be used if high-speed inputs are in use, and high-speed inputs cannot be used if high-speed outputs are in use. Analog inputs and outputs can be accommodated with option cards, which are available for both the DL05 and DL06.</p>

