

ControlLogix Power Supplies

ControlLogix power supplies are used with the 1756 chassis to provide 1.2V, 3.3V, 5V, and 24V DC power directly to the chassis backplane. Select from these configurations:

- Standard power supplies
- ControlLogix-XT power supplies
- Redundant power supplies



For detailed specifications, see the 1756 ControlLogix Power Supplies Specifications Technical Data, publication [1756-TD005](#).

Standard Power Supplies

You mount a standard power supply directly on the left end of the chassis, where it plugs directly into the backplane.

Cat. No.	Description	Voltage Category	Operating Voltage Range	Chassis
1756-PA72	Standard AC power supply	120V/220V AC	85...265V AC	Standard, series A, and series B
1756-PA75		120V/220V AC	85...265V AC	Standard, series B
1756-PB72	Standard DC power supply	24V DC	18...32V DC	Standard, series A, and series B
1756-PB75		24V DC	18...32V DC	Standard, series B
1756-PC75		48V DC	30...60V DC	Standard, series B
1756-PH75		125V DC	90...143V DC	Standard, series B

ControlLogix-XT Power Supplies

The ControlLogix-XT power supplies support extreme temperature environments.

Cat. No.	Description	Voltage Category	Operating Voltage Range	Chassis
1756-PAXT	ControlLogix-XT AC power supply	85...265V AC	120/240V AC	XT
1756-PBXT	ControlLogix-XT DC power supply	24V DC	18...32V DC	XT

Redundant Power Supplies

A redundant power supply system provides extra uptime protection for chassis that are used in critical applications. The redundant power supplies funnel power through the chassis adapter to the ControlLogix series B chassis backplane. To build a redundant power supply system, you need the following components.

Cat. No.	Amount	Description	Voltage Category	Operating Voltage Range	Chassis
1756-PAR2	Kit	Bundled system contains: <ul style="list-style-type: none"> – Two 1756-PA75R power supplies – Two 1756-CPR2 cables – One 1756-PSCA2 chassis adapter 	110V AC	N/A	Standard, series B
1756-PBR2	Kit	Bundled system contains: <ul style="list-style-type: none"> – Two 1756-PB75R power supplies – Two 1756-CPR2 cables – One 1756-PSCA2 chassis adapter 	24V DC	N/A	
1756-PA75R/A or 1756-PB75R/A	2	Redundant AC power supply Redundant DC power supply	120V/220V AC 24V DC	85...256V AC 19.2...32V DC	
1756-CPR2	2	Redundant power supply cable (Length = 0.91 m [3 ft])	N/A	N/A	
1756-PSCA2	1	Redundant power supply chassis adapter			
N/A (user-supplied)	2	Annunciator wiring ⁽¹⁾ (Maximum length = 10 m [32.8 ft])			

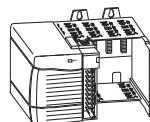
(1) Optional user-supplied annunciator wiring can be connected to the solid-state relay input for status and troubleshooting purposes.

Select a ControlLogix System



Step 1 [ControlLogix I/O Modules](#)

[Page 10](#)



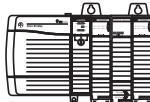
Select:

- I/O modules—Some modules have field-side diagnostics, electronic fusing, or individually isolated inputs/outputs
- A remote terminal block (RTB) or wiring system for each I/O module



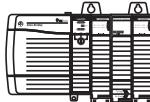
Step 2 [ControlLogix Integrated Motion](#)

[Page 18](#)



Step 3 [ControlLogix Communication Modules](#)

[Page 19](#)



Select:

- Networks
- Communication modules
- Associated cables and network equipment
- Sufficient modules and cables if you are planning a redundant system



Step 4 [ControlLogix Controllers](#)

[Page 24](#)



Select a controller:

- Standard ControlLogix controller
- Redundant ControlLogix controller
- Safety GuardLogix controller
- Extreme environment ControlLogix controller
- Standard Armor ControlLogix controller
- Safety Armor GuardLogix controller

[Page 30](#)



Step 5 [ControlLogix Chassis](#)

Select:

- A chassis with sufficient slots
- Slot fillers for empty slots

[Page 31](#)



Step 6 [ControlLogix Power Supplies](#)

Select:

- One power supply for each chassis, if you are using standard power supplies
- A power supply bundle if you are planning a redundant power supply system