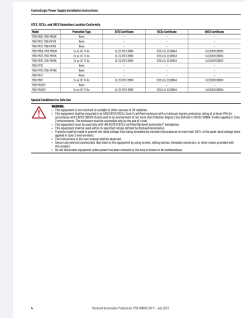


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

1756-PA75/B

AC chassis power supply



PRODUCT	1756-PA75/B
FAMILY	ControlLogix 1756 power supplies
FUNCTION	AC chassis power supply
SOURCE	Allen-Bradley ControlLogix 1756 power supplies technical documentation

01 OFFICIAL MOUNTING AND WIRING

- Remove input power and follow the official isolation instructions before mounting.
- Attach the power supply to the specified left side of the compatible chassis.
- Wire the input supply using the documented terminals, conductor requirements and tightening torque.

AMIKON PRODUCT SUPPORT

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Product Advisories



ATTENTION:

This equipment is sensitive to electrostatic discharge, which can cause internal damage and affect normal operation. Follow these guidelines when you handle this equipment:

- Touch a grounded object to discharge potential static.
- Wear an approved grounding wriststrap.
- Do not touch connectors or pins on component boards.
- Do not touch circuit components inside the equipment.
- Use a static-safe workstation, if available.
- Store the equipment in appropriate static-safe packaging when not in use.

IMPORTANT

ControlLogix-XT system components are rated for extreme environmental conditions only when used properly with other Logix-XT system components. The use of ControlLogix-XT components with standard ControlLogix system components nullifies extreme-environment ratings.

If a ControlLogix-XT module is used with standard ControlLogix products, the ControlLogix-XT module can withstand only the environments specified for the standard ControlLogix version of the module. For example, if a 1756-L63XT controller is used in a standard 1756-A10 chassis, the ControlLogix-XT controller can withstand only the environment specified for the standard 1756-L63 controller.

The ControlLogix-XT system components are designed to meet the same and greater operational and environmental requirements as traditional ControlLogix products.

When a ControlLogix-XT component is used as a replacement for a traditional ControlLogix component, the functional and environmental requirements of the traditional ControlLogix component apply, with the exception of the power output ratings.

North American Hazardous Location Approval

The following information applies when operating this equipment in hazardous locations.	Informations sur l'utilisation de cet équipement en environnements dangereux.
Products marked "CL I, DIV 2, GP A, B, C, D" are suitable for use in Class I Division 2 Groups A, B, C, D, Hazardous Locations and nonhazardous locations only. Each product is supplied with markings on the rating nameplate indicating the hazardous location temperature code. When combining products within a system, the most adverse temperature code (lowest "T" number) may be used to help determine the overall temperature code of the system. Combinations of equipment in your system are subject to investigation by the local Authority Having Jurisdiction at the time of installation.	Les produits marqués "CL I, DIV 2, GP A, B, C, D" ne conviennent qu'à une utilisation en environnements de Classe I Division 2 Groupes A, B, C, D dangereux et non dangereux. Chaque produit est livré avec des marquages sur sa plaque d'identification qui indiquent le code de température pour les environnements dangereux. Lorsque plusieurs produits sont combinés dans un système, le code de température le plus défavorable (code de température le plus faible) peut être utilisé pour déterminer le code de température global du système. Les combinaisons d'équipements dans le système sont sujettes à inspection par les autorités locales qualifiées au moment de l'installation.
WARNING: Explosion Hazard - • Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous. • Do not disconnect connections to this equipment unless power has been removed or the area is known to be nonhazardous. Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product. • Substitution of components may impair suitability for Class I, Division 2. • If this product contains batteries, they must only be changed in an area known to be nonhazardous.	AVERTISSEMENT: Risque d'Explosion - • Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher l'équipement. • Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher les connecteurs. Fixer tous les connecteurs externes reliés à cet équipement à l'aide de vis, loquets coulissants, connecteurs filetés ou autres moyens fournis avec ce produit. • La substitution de composants peut rendre cet équipement inadapté à une utilisation en environnement de Classe I, Division 2. • S'assurer que l'environnement est classé non dangereux avant de changer les piles.

UK and European Hazardous Location Approval

The following applies to products marked , II 3 G. Such modules:

- Are Equipment Group II, Equipment Category 3, and comply with the Essential Health and Safety Requirements relating to the design and construction of such equipment given in Annex II to EU Directive 2014/34/EU and Schedule 1 of the UKEX Regulation 2016 No. 1107. See the UKEX and EU Declaration of Conformity at rok.auto/certifications for details.
- The type of protection is <Ex ec IIC T4 Gc> Equipment protection by increased safety "e".
- Equipment protection by increased safety "e", reference certificate number UL 22 ATEX 2819X and UL22UKEX2605X.
- Are intended for use in areas in which explosive atmospheres caused by gases, vapors, mists, or air are unlikely to occur, or are likely to occur only infrequently and for short periods. Such locations correspond to Zone 2 classification according to UKEX Regulation 2016 No. 1107 and ATEX directive 2014/34/EU.

IEC Hazardous Location Approval

The following applies to products with IECEx certification.

- Such products are intended for use in areas in which explosive atmospheres caused by gases, vapors, mists, or air are unlikely to occur, or are likely to occur only infrequently and for short periods. Such locations correspond to Zone 2 classification.
- The type of protection is <Ex ec IIC T4 Gc>.
- IECEx certificate number IECEx UL 22.0064X.

ATEX, IECEx, and UKEX Hazardous Location Conformity

Model	Protection Type	ATEX Certificate	IECEx Certificate	UKEX Certificate
1756-PA50, 1756-PA50K	None	—	—	—
1756-PA72, 1756-PA72K	None	—	—	—
1756-PA75, 1756-PA75K	None	—	—	—
1756-PB50, 1756-PB50K	Ex ec IIC T4 Gc	UL 22 ATEX 2819X	IECEx UL 22.0064X	UL22UKEX2605X
1756-PB72, 1756-PB72K	Ex ec IIC T4 Gc	UL 22 ATEX 2819X	IECEx UL 22.0064X	UL22UKEX2605X
1756-PB75, 1756-PB75K	Ex ec IIC T4 Gc	UL 22 ATEX 2819X	IECEx UL 22.0064X	UL22UKEX2605X
1756-PC75	None	—	—	—
1756-PH75, 1756-PH75K	None	—	—	—
1756-PAXT	None	—	—	—
1756-PBXT	Ex ec IIC T4 Gc	UL 22 ATEX 2819X	IECEx UL 22.0064X	UL22UKEX2605X
1756-PA30XT	None	—	—	—
1756-PB30XT	Ex ec IIC T4 Gc	UL 22 ATEX 2819X	IECEx UL 22.0064X	UL22UKEX2605X

Special Conditions for Safe Use

**WARNING:**

- This equipment is not resistant to sunlight or other sources of UV radiation.
- This equipment shall be mounted in an UKEX/ATEX/IECEx Zone 2 certified enclosure with a minimum ingress protection rating of at least IP54 (in accordance with EN/IEC 60079-0) and used in an environment of not more than Pollution Degree 2 (as defined in EN/IEC 60664-1) when applied in Zone 2 environments. The enclosure must be accessible only by the use of a tool.
- This equipment must be used only with UKEX/ATEX/IECEx certified Rockwell Automation® backplanes.
- This equipment shall be used within its specified ratings defined by Rockwell Automation.
- Provision shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 140% of the peak rated voltage when applied in Zone 2 environments.
- The instructions in the user manual shall be observed.
- Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product.
- Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous.

Tools Required

When installing the standard or ControlLogix-XT versions of your 1756 chassis and power supplies, the following items are required:

- 3.18 mm (0.125 in.) slotted screwdriver
- 6.35 mm (0.25 in.) slotted or #2 Phillips screwdriver
- Torque screwdriver
- Needle-nose pliers
- Crimper
- Wire stripper
- Drill



ATTENTION: If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

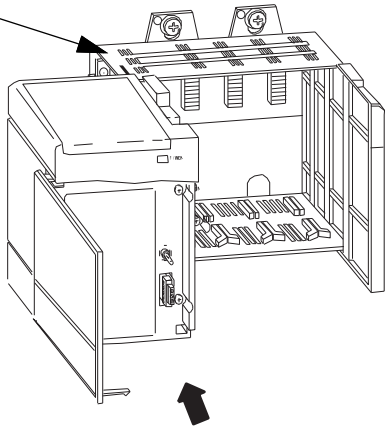


ATTENTION: Do not remove the protective label until the chassis is mounted and all panel fabrication is complete. This label protects the power supply from metal shavings falling inside the power supply and damaging it during operation.

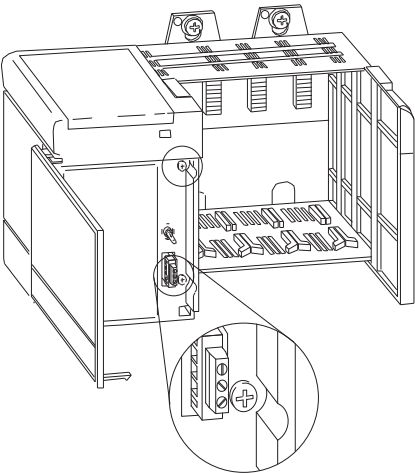
Install the Power Supply

1. Make sure that the chassis is installed and grounded correctly.
2. Align the power-supply circuit board with the card guides on the left side of the chassis.
3. Slide the power supply back until it is flush with the front of the chassis.

Card Guide



4. Tighten the top and bottom screws to fasten the power supply to the chassis.



Connect the Power



WARNING: If you connect or disconnect wiring while the field-side power is on, an electric arc can occur. This can cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.



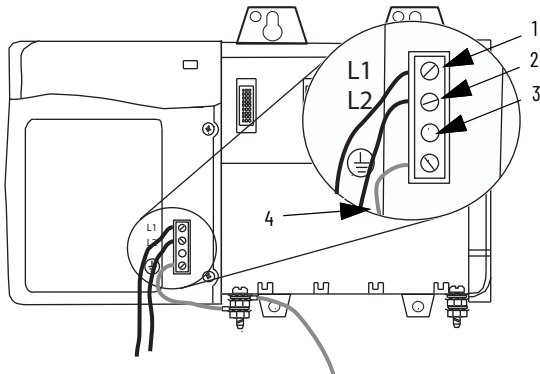
ATTENTION: Do not wire more than one conductor on any single terminal.
Use 15 A time-delay type fuse in all ungrounded power connections.

Use 2.5 mm² (14 AWG) solid or stranded-copper wire that is rated at 90 °C (194 °F), or greater, 1.2 mm (3/64 in.) insulation maximum to connect power.

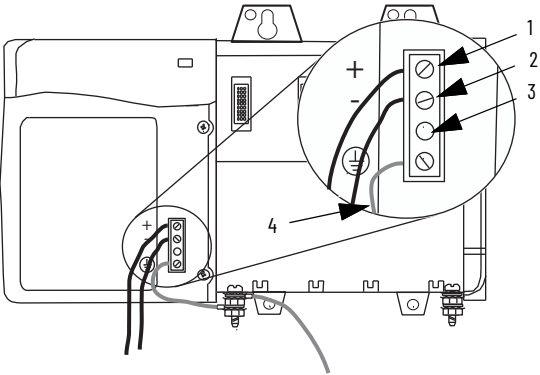
1. Connect the power as shown in this figure.
2. Tighten the terminals to a torque of 0.565 N·m (5 lb·in).

IMPORTANT The voltage input connections of the power supplies are auto-sensing.
Do not use a jumper, for example, a 120/240V AC jumper, when connecting external power to the power supply.

AC Power Supplies



DC Power Supplies



Item	Description, AC Power Supplies	Description, DC Power Supplies
1	L1 (high side of line power)	DC+ (positive supply)
2	L2 (low side of line power)	DC- (negative supply return)
3	This terminal is not used and is capped to prevent use.	
4	Protective Earth. Attach to chassis ground lug or ground bus. See the ControlLogix Chassis Installation Instructions, publication 1756-IN621 , for details.	