



1756 ControlLogix Power Supplies Specifications

Standard Chassis Catalog Numbers 1756-A4, 1756-A10, 1756-A13, 1756-A17

ControlLogix-XT Chassis Catalog Numbers 1756-A4LXT, 1756-A5XT, 1756-A7XLT, 1756-A7XT

Standard Power Supplies Catalog Numbers 1756-PA72, 1756-PA75, 1756-PB72, 1756-PB75, 1756-PC75, 1756-PH75

ControlLogix-XT Power Supplies Catalog Numbers 1756-PAXT, 1756-PBXT

Redundant Power Supplies Catalog Numbers 1756-PA75R, 1756-PB75R

Redundant Power Supplies Chassis Adapter Module Catalog Number 1756-PSCA2

ControlLogix-XT Redundant Power Supplies Catalog Numbers 1756-PAXTR, 1756-PBXTR

ControlLogix-XT Redundant Power Supplies Chassis Adapter Module Catalog Number 1756-PSCA2XT

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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. Standard, ControlLogix-XT™, and redundant power supplies are available.



Summary of Changes

This manual contains new and updated information. Changes throughout this revision are marked by change bars, as shown to the left of this paragraph.

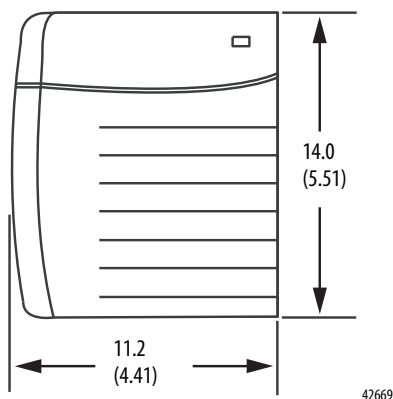
| Topic | Page |
|--|--------|
| Added Technical Specifications, Environmental Specifications, and Certifications tables for of Tables for ControlLogix-XT Redundant Power Supplies | 15, 17 |
| Updated the tables to include the ControlLogix-XT Redundant Power Supply Chassis Adapter | 17 |

The following components were added to this technical data:

- ControlLogix-XT Redundant Power Supply (catalog number 1756-PAXTR)
- ControlLogix-XT Redundant Power Supply (catalog number 1756-PBXTR)
- ControlLogix-XT Redundant Power Supply Chassis Adapter Module (catalog number 1756-PSCA2XT)
- Standard AC power supplies

Standard AC Power Supplies

1756-PA72 and 1756-PB75 Mounting Dimensions



Dimensions are in cm (in.).

Table 1 - Technical Specifications - Standard AC Power Supplies

| Attribute | 1756-PA72/C | 1756-PA75/B |
|------------------------------------|---|-------------|
| Input voltage range ⁽¹⁾ | 85...265V AC | |
| Input voltage, nom | 120V/240V AC | |
| Input frequency range | 47...63 Hz | |
| Input power, max | 100VA/100 W | |
| Output power, max | 75 W @ 0...60 °C (32...140 °F) ⁽³⁾ | |
| Power consumption | 25 W @ 0...60 °C (32...140 °F) | |
| Power dissipation | 85.3 BTU/hr | |

Table 1 - Technical Specifications - Standard AC Power Supplies

| Attribute | 1756-PA72/C | 1756-PA75/B |
|---------------------------------|--|-------------|
| Hold-up time ⁽²⁾ | 5 cycles @ 85V AC, 50/60 Hz 6 cycles @ 120V AC, 50/60 Hz 6 cycles @ 200V AC, 50/60 Hz 6 cycles @ 240V AC, 50/60 Hz | |
| Inrush current, max | 20 A | |
| Current capacity at 1.2V DC | 1.5 A | |
| Current capacity at 3.3V DC | 4 A | |
| Current capacity at 5.1V DC | 10 A | 13 A |
| Current capacity at 24V DC | 2.8 A | |
| Overcurrent protection, max | User-supplied 15 A ⁽⁴⁾ | |
| Fusing | Non-replaceable fuse is soldered in place ⁽⁵⁾ | |
| Transformer load, max | 100VA | |
| Isolation voltage | 250V (continuous), reinforced insulation type Type tested @ 3500V DC for 60 s, power input-to-backplane approx | |
| Weight, approx | 0.95 kg (2.10 lb) | |
| Dimensions | 14.0 x 11.2 x 14.5 cm (5.51 x 4.41 x 5.71 in.) | |
| Module location | Left side of 1756 chassis | |
| Chassis | 1756-A4, 1756-A7, 1756-A10, 1756-A13, 1756-A17 | |
| Chassis compatibility | Series A Series B | Series B |
| Wire size | 2.5 mm ² (14 AWG) solid or stranded copper wire rated at 90 °C (194 °F), or greater, 1.2 mm (3/64 in.) insulation max | |
| Wire category | 1 - on power ports ⁽⁶⁾ | |
| Conductor screw torque | 0.8 N•m (7 lb•in) | |
| North American temperature code | T4 | |
| Enclosure type rating | None (open-style) | |

(1) UL certification for 120/240V AC, 50/60 Hz nominal. Rockwell Automation specified 85...265V AC, 47...63 Hz.

(2) The hold-up time is the time between input voltage removal and DC power failure.

(3) The combination of all output power (5.1V backplane, 24V backplane, 3.3V backplane, and 1.2V backplane) cannot exceed 75 W.

(4) Use time-delay type overcurrent protection in all ungrounded conductors.

(5) This fuse is intended to guard against fire hazard due to short circuit conditions.

(6) Use this conductor category information for planning conductor routing as described in the system level installation manual. See the Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

Table 2 - Environmental Specifications - Standard AC Power Supplies

| Attribute | 1756-PA72/C, 1756-PA75/B |
|---|----------------------------|
| Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock) | 0...60 °C (32...140 °F) |
| Temperature, surrounding air, max | 60 °C (140 °F) |
| Temperature, non-operating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock) | -40...85 °C (-40...185 °F) |
| Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat) | 5...95% noncondensing |
| Vibration IEC 60068-2-6 (Test Fc, Operating) | 2 g @ 10...500 Hz |
| Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 30 g |

Table 2 - Environmental Specifications - Standard AC Power Supplies

| Attribute | 1756-PA72/C, 1756-PA75/B |
|---|---|
| Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 50 g |
| Emissions CISPR 11 (IEC 61000-6-4) | Class A |
| ESD immunity IEC 61000-4-2 | 6 kV contact discharges 8 kV air discharges |
| Radiated RF immunity IEC 61000-4-3 | 10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 3V/m with 1kHz sine-wave 80% AM from 2000...2700 MHz |
| EFT/B immunity IEC 61000-4-4 | ±4 kV at 5 kHz on power ports |
| Surge transient immunity IEC 61000-4-5 | ±1 kV line-line (DM) and ±2 kV line-earth (CM) on power ports |
| Conducted RF immunity IEC 61000-4-6 | 10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz |
| Oscillatory surge withstand IEEE C37.90.1 | 3 kV |
| Voltage variation IEC 61000-4-11 | 30% dips for 1 period at 0° and 180° on AC supply ports 60% dips for 5 and 50 periods on AC supply ports ±10% fluctuations for 15 min on AC supply ports >95% interruptions for 250 periods on AC supply ports |

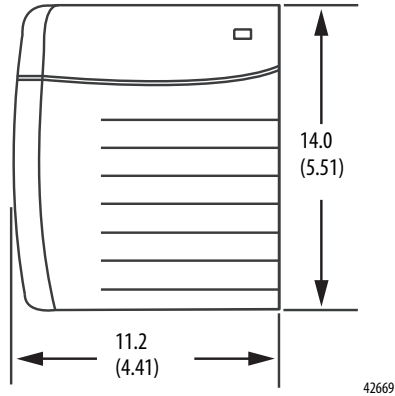
Table 3 - Certifications - Standard AC Power Supplies

| Certification ⁽¹⁾ | 1756-PA72/C, 1756-PA75/B |
|------------------------------|---|
| UL | UL Listed Industrial Control Equipment. See UL File E65584. |
| CSA | CSA Certified Process Control Equipment. See CSA File LR54689C. CSA Certified Process Control Equipment for Class I, Division 2 Group A,B,C,D Hazardous Locations. See CSA File LR69960C. |
| FM | FM Approved Equipment for use in Class I Division 2 Group A,B,C,D Hazardous Locations |
| CE | European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) European Union 2006/95/EC LVD, compliant with: <ul style="list-style-type: none"> EN 61131-2; Programmable Controllers (Clause 11) |
| C-Tick | Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> AS/NZS CISPR 11; Industrial Emissions |
| KC | Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> Article 58-2 of Radio Waves Act, Clause 3 |

(1) When marked. See the Product Certification link at <http://www.ab.com> for Declarations of Conformity, Certificates, and other certification details.

Standard DC Power Supplies

1756-PB72, 1756-PB75, 1756-PC75, and 1756-PH75 Mounting Dimensions



Dimensions are in cm (in.).

Table 4 - Technical Specifications - Standard DC Power Supplies

| Attribute | 1756-PB72/C | 1756-PB75/B | 1756-PC75/B | 1756-PH75/B |
|-----------------------------|--|-------------|----------------------------|-----------------------------|
| Input voltage range | 18...32V DC ⁽²⁾ | | 30...60V DC ⁽⁷⁾ | 90...143V DC ⁽⁸⁾ |
| Input voltage, nom | 24V DC | | 48V DC | 125V DC |
| Input power, max | 95 W | | | |
| Output power, max | 75 W @ 0...60 °C (32...140 °F) ⁽³⁾ | | | |
| Power consumption | 20 W @ 0...60 °C (32...140 °F) | | | |
| Power dissipation | 68.2 BTU/hr | | | |
| Hold-up time ⁽¹⁾ | 35 ms @ 18V DC 40 ms @ 24V DC 40 ms @ 32V DC | | 50 ms @ 30...60V DC nom | 50 ms @ 90...143V DC nom |
| Inrush current, max | 30 A | | 20 A | |
| Current capacity at 1.2V | 1.5 A | | | |
| Current capacity at 3.3V | 4 A | | | |
| Current capacity at 5.1V | 10 A | 13 A | | |
| Current capacity at 24V | 2.8 A | | | |
| Overcurrent protection, max | User-supplied 15 A ⁽⁴⁾ | | | |
| Fusing | Non-replaceable fuse is soldered in place ⁽⁵⁾ | | | |
| Isolation voltage | 250V (continuous), reinforced insulation type, power input-to-backplane Type tested @ 3500V DC for 60 s | | | |
| Weight, approx | 0.95 kg (2.10 lb) | | | |
| Dimensions | 14.0 x 11.2 x 14.5 cm (5.51 x 4.41 x 5.71 in.) | | | |
| Module location | Left side of 1756 chassis | | | |
| Chassis | 1756-A4, 1756-A7, 1756-A10, 1756-A13, 1756-A17 | | | |
| Chassis compatibility | Series A Series B | | Series B | |
| Wire size | 2.5 mm ² (14 AWG) solid or stranded copper wire rated at 90 °C (194 °F), or greater, 1.2 mm (3/64 in.) insulation max | | | |
| Wire category | 1 - on power ports ⁽⁶⁾ | | | |

Table 4 - Technical Specifications - Standard DC Power Supplies

| Attribute | 1756-PB72/C | 1756-PB75/B | 1756-PC75/B | 1756-PH75/B |
|---------------------------------|-------------------|-------------|-------------|-------------|
| Conductor screw torque | 0.8 N·m (7 lb·in) | | | |
| North American temperature code | T4 | | | |
| IEC temperature code | T4 | | N/A | |
| Enclosure type rating | None (open-style) | | | |

- (1) The hold-up time is the time between input voltage removal and DC power failure.
- (2) UL certification for 24V DC nominal. Rockwell Automation specified 18...32V DC.
- (3) The combination of all output power (5.1V backplane, 24V backplane, 3.3V backplane, and 1.2V backplane) cannot exceed 75 W.
- (4) Use time-delay type overcurrent protection in all ungrounded conductors.
- (5) This fuse is intended to guard against fire hazard due to short circuit conditions.
- (6) Use this conductor category information for planning conductor routing as described in the system level installation manual. See the Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).
- (7) UL Certification for 48V DC nominal. Rockwell Automation specified 30...60V DC.
- (8) UL certification for 125V DC nominal. Rockwell Automation specified 90...143V DC.

Table 5 - Environmental Specifications - Standard DC Power Supplies

| Attribute | 1756-PB72/C, 1756-PB75/B | 1756-PC75/B, 1756-PH75/B |
|--|--|--------------------------|
| Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock) | 0...60 °C (32...140 °F) | |
| Temperature, surrounding air, max | 60 °C (140 °F) | |
| Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock) | -40...85 °C (-40...185 °F) | |
| Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat) | 5...95% noncondensing | |
| Vibration IEC 60068-2-6 (Test Fc, Operating) | 2 g @ 10...500 Hz | |
| Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 30 g | |
| Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 50 g | |
| Emissions CISPR 11 (IEC 61000-6-4) | Class A | |
| ESD immunity IEC 61000-4-2 | 6 kV contact discharges 8 kV air discharges | |
| Radiated RF immunity IEC 61000-4-3 | 10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 3V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz | |
| EFT/B immunity IEC 61000-4-4 | ±4 kV at 5 kHz on power ports | |
| Surge transient immunity IEC 61000-4-5 | ±1 kV line-line (DM) and ±2 kV line-earth (CM) on power ports | |
| Conducted RF immunity IEC 61000-4-6 | 10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz | |
| Oscillatory surge withstand IEEE C37.90.1 | N/A | 3 kV |
| Voltage variation IEC 61000-4-29 | 60% dips for 100 ms on DC supply ports 100% dips for 50 ms on DC supply ports ±20% fluctuations for 15 min on DC supply ports 5 s interruptions on DC supply ports 10 ms interruption on DC supply ports | |

Table 6 - Certifications - Standard DC Power Supplies

| Certification ⁽¹⁾ | 1756-PB72/C, 1756-PB75/B | 1756-PC75/B, 1756-PH75/B |
|------------------------------|---|---|
| UL | N/A | UL Listed Industrial Control Equipment. See UL File E65584. |
| c-UL-us | UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for US and Canada. See UL File E194810. | N/A |
| CSA | CSA Certified Process Control Equipment. See CSA File LR54689C. CSA Certified Process Control Equipment for Class I, Division 2 Group A,B,C,D Hazardous Locations. See CSA File LR69960C. | |
| FM | FM Approved Equipment for use in Class I Division 2 Group A,B,C,D Hazardous Locations | N/A |
| CE | European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> • EN 61326-1; Meas./Control/Lab., Industrial Requirements • EN 61000-6-2; Industrial Immunity • EN 61000-6-4; Industrial Emissions • EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) European Union 2006/95/EC LVD, compliant with: <ul style="list-style-type: none"> • EN 61131-2; Programmable Controllers (Clause 11) | |
| C-Tick | Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> • AS/NZS CISPR 11; Industrial Emissions | |
| Ex | European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> • EN 60079-15; Potentially Explosive Atmospheres, Protection "n" • EN 60079-0; General Requirements • II 3 G Ex nA IIC T4 Gc X | N/A |
| KC | Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> • Article 58-2 of Radio Waves Act, Clause 3 | |

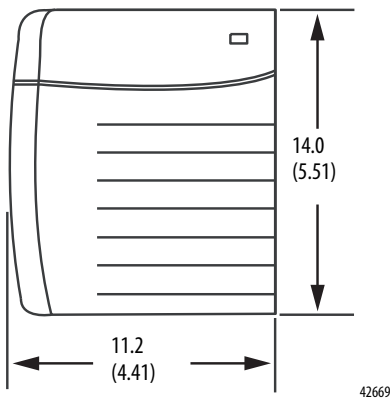
(1) When marked. See the Product Certification link at <http://www.ab.com> for Declarations of Conformity, Certificates, and other certification details.

1756 ControlLogix-XT Power Supplies

The ControlLogix-XT products include control and communication system components that, when used with FLEX I/O-XT™ products, provide a complete control system solution that you can use in environments where temperatures range from -20...70 °C (-4...158 °F).

When used independently, the ControlLogix-XT system can withstand environments where the temperature ranges from -25...70 °C (-13...158 °F).

1756-PAXT and 1756-PBXT Mounting Dimensions



Dimensions are in cm (in.).

Table 7 - Technical Specifications - ControlLogix-XT Power Supplies

| Attribute | 1756-PAXT | 1756-PBXT |
|-----------------------------|---|--|
| Input voltage range | 85...265V AC ⁽²⁾ | 18...32V DC |
| Input voltage, nom | 120/240V AC | 24V DC |
| Input frequency range | 47...63 Hz | N/A |
| Input power, max | 82VA 64 W | 54 W |
| Output power, max | 42 W @ -25...70 °C (-13...158 °F) | |
| Power consumption | 22 W | 12 W |
| Power dissipation | 75.1 BTU/hr | 40.9 BTU/hr |
| Hold-up time ⁽¹⁾ | 6 cycles @ 85V AV, 50/60 Hz 6 cycles @ 120V AV, 50/60 Hz 6 cycles @ 200V AV, 50/60 Hz 6 cycles @ 240V AV, 50/60 Hz | 35 ms @ 18V DC 40 ms @ 24V DC 40 ms @ 32V DC |
| Inrush current, max | 20 A | 30 A |
| Current capacity at 1.2V | 1.5 A | |
| Current capacity at 3.3V | 4 A | |
| Current capacity at 5.1V | 8 A | |
| Current capacity at 24V | 1.75 A | |
| Overcurrent protection, max | User-supplied 15 A ⁽³⁾ | |
| Fusing | Non-replaceable fuse is soldered in place ⁽⁴⁾ | |
| Isolation voltage | 250V (continuous), reinforced insulation type, power input-to-backplane Type tested @ 3260V DC for 60 s | |

Table 7 - Technical Specifications - ControlLogix-XT Power Supplies

| Attribute | 1756-PAXT | 1756-PBXT |
|---------------------------------|--|-----------|
| Weight, approx | 0.95 kg (2.10 lb) | |
| Dimensions | 14.0 x 11.2 x 14.5 cm (5.51 x 4.41 x 5.71 in.) | |
| Module location | Left side of 1756 chassis | |
| Chassis | 1756-A4LXT, 1756-A5XT, 1756-A7LXT, 1756-A7XT | |
| Wire size | 2.5 mm ² (14 AWG) solid or stranded copper wire rated at 90 °C (194 °F), or greater, 1.2 mm (3/64 in.) insulation max | |
| Wire category | 1 - on power ports ⁽⁵⁾ | |
| Conductor screw torque | 0.8 N·m (7 lb·in) | |
| North American temperature code | T4 | T4A |
| IEC temperature code | T4 | |
| Enclosure type rating | None (open-style) | |

- (1) The hold-up time is the time between input voltage removal and DC power failure.
- (2) UL certification for 120/240V AC, 50/60 Hz nominal. Rockwell Automation specified 85...265V AC, 47...63 Hz.
- (3) Use time-delay type overcurrent protection in all ungrounded conductors.
- (4) This fuse is intended to guard against fire hazard due to short circuit conditions.
- (5) Use this conductor category information for planning conductor routing as described in the system level installation manual. See the Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

Table 8 - Environmental Specifications - ControlLogix-XT Power Supplies

| Attribute | 1756-PAXT | 1756-PBXT |
|--|--|-----------|
| Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock) | -25...70 °C (-13...158 °F) | |
| Temperature, surrounding air, max | 70 °C 158 °F) | |
| Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock) | -40...85 °C (-40...185 °F) | |
| Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat) | 5...95% noncondensing | |
| Vibration IEC 60068-2-6 (Test Fc, Operating) | 2 g @ 10...500 Hz | |
| Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 30 g | |
| Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 50 g | |
| Emissions CISPR 11 (IEC 61000-6-4) | Class A | |
| ESD immunity IEC 61000-4-2 | 6 kV contact discharges 8 kV air discharges | |
| Radiated RF immunity IEC 61000-4-3 | 10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM at 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM at 1890 MHz 3V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz | |
| EFT/B immunity IEC 61000-4-4 | ±4 kV at 5 kHz on power ports | |
| Surge transient immunity IEC 61000-4-5 | ±1 kV line-line (DM) and ±2 kV line-earth (CM) on power ports | |
| Conducted RF immunity IEC 61000-4-6 | 10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz | |

Table 8 - Environmental Specifications - ControlLogix-XTPower Supplies

| Attribute | 1756-PAXT | 1756-PBXT |
|--|---|--|
| Oscillatory surge withstand IEEE C37.90.1 | 3 kV | N/A |
| Voltage variation IEC 61000-4-11 | 30% dips for 1 period at 0° and 180° on AC supply ports 60% dips for 5 and 50 periods on AC supply ports ±10% fluctuations for 15 min on AC supply ports >95% interruptions for 250 periods on AC supply ports | N/A |
| Voltage variation IEC 61000-4-29 | N/A | 60% dips for 100 ms on DC supply ports 100% dips for 50 ms on DC supply ports ±20% fluctuations for 15 min on DC supply ports 5 s interruptions on DC supply ports 10 ms interruption on DC supply ports |

Table 9 - Certifications - ControlLogix-XPowerT Supplies

| Certification ⁽¹⁾ | 1756-PAXT, 1756-PBXT |
|------------------------------|---|
| c-UL-us | UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for US and Canada. See UL File E194810. |
| CE | European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) European Union 2006/95/EC LVD, compliant with: <ul style="list-style-type: none"> EN 61131-2; Programmable Controllers (Clause 11) |
| C-Tick | Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> AS/NZS CISPR 11; Industrial Emissions |
| Ex | European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> EN 60079-15; Potentially Explosive Atmospheres, Protection "n" EN 60079-0; General Requirements II 3 G Ex nA IIC T4 Gc X |
| KC | Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> Article 58-2 of Radio Waves Act, Clause 3 |

(1) When marked. See the Product Certification link at <http://www.ab.com> for Declarations of Conformity, Certificates, and other certification details.

Redundant Power Supplies

To build a redundant power supply system, you need the following.

| Cat. No. | Description | Amount |
|--|--|--------|
| 1756-PA75R/A, 1756-PAXTR, 1756-PB75R/A, or 1756-PBXTR | Redundant power supply | 2 |
| 1756-CPR2 ⁽¹⁾ | Redundant power supply cable (Length = 0.9 1m [3 ft]) | 2 |
| 1756-PSCA2 or 1756-PSCA2XT | Redundant power supply chassis adapter module ⁽²⁾ | 1 |
| User-supplied | Annunciator wiring ⁽³⁾ (Max. length = 10 m [32.8 ft]) | 2 |

(1) Cable bend radius is 12.7 cm (5.0 in.).

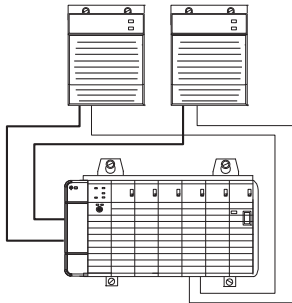
(2) The 1756-PSCA2 or 1756-PSCA-2XT chassis adapter module is a passive device that funnels power from the redundant power supplies to the single power connector on the ControlLogix series B chassis backplane.

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

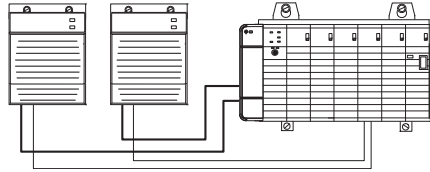
System Configuration Recommendations

We recommend that you use one of these methods to configure your redundant power supply system.

Recommended Configurations for a System That Uses One Chassis

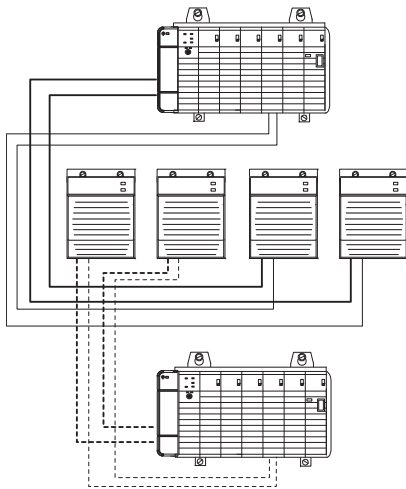


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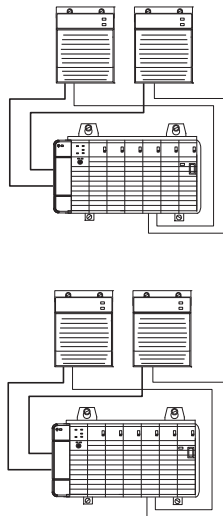


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Recommended Configurations for a System That Uses Two Chassis

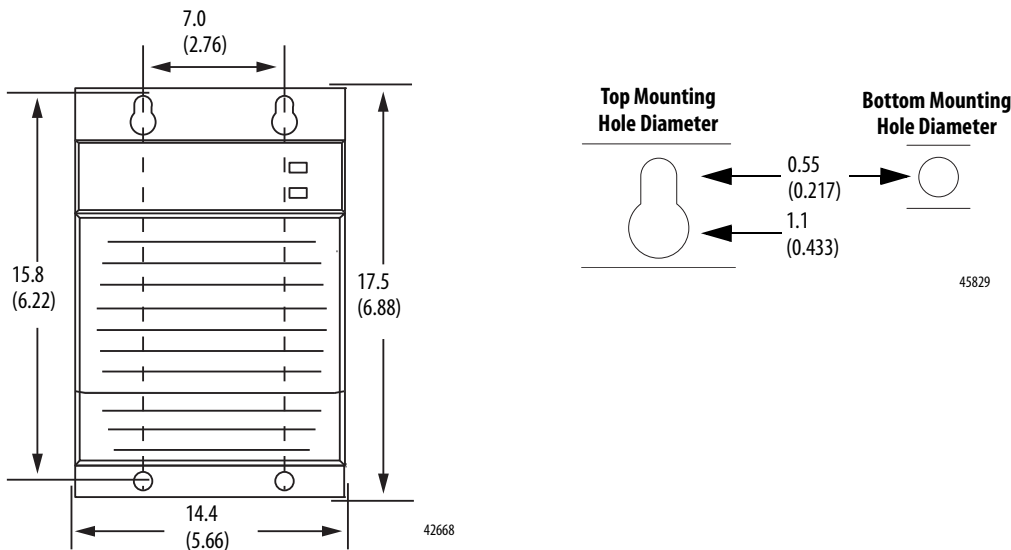


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1756-PA75R, 1756-PAXTR, 1756-PB75R, and 1756-PBXTR Mounting Dimensions



Dimensions are in cm (in.).

Redundant Power Supply Features

The redundant power supplies offer the same features as the standard power supplies, in addition to the following:

- Automatic chassis load sharing between the redundant power supplies
- Status indicators for visual operating status of the pair
- Solid-state relay for system recognition of supply status when wired to an input module

Table 10 - Technical Specifications - ControlLogix Redundant Power Supplies

| Attribute | 1756-PA75R | 1756-PB75R |
|-----------------------------|---|----------------------------|
| Input voltage range | 85...265V AC ⁽¹⁾ | 18...32V DC ⁽²⁾ |
| Input voltage | 120V/240V AC, 50/60 Hz | 24V DC |
| Input frequency range | 47...63 Hz | DC |
| Input power, max | 120VA 115 W | 110 W |
| Output power, max | 75 W @ 0...60 °C (32...140 °F) | |
| Hold-up time ⁽³⁾ | 2 cycles @ 60 Hz 2 cycles @ 50 Hz | 20 ms |
| Inrush current, max | 20 A | 30 A |
| Current capacity at 1.2V | 1.5 A | |
| Current capacity at 3.3V | 4 A | |
| Current capacity at 5.1V | 13 A | |
| Current capacity at 24V | 2.8 A | |
| Annunciator power | 240V AC 50/60 Hz, 240V DC, 50 mA, resistive only | |
| Overcurrent protection, max | User-supplied 15 A ⁽⁴⁾ | |
| Fusing | Non-replaceable fuse is soldered in place ⁽⁵⁾ | |
| Isolation voltage | 250V (continuous), Reinforced Insulation Type, Power Input to Backplane, Power Input to Annunciator, Annunciator to Backplane Type tested at 3250V DC for 60 s | |

Table 10 - Technical Specifications - ControlLogix Redundant Power Supplies

| Attribute | 1756-PA75R | 1756-PB75R |
|---------------------------------|--|------------|
| Dimensions (HxWxD), approx | 17.5 x 14.5 x 13.7 cm (6.9 x 5.7 x 5.4 in.) | |
| Weight, approx | 1.45 kg (3.2 lb) | |
| Chassis | 1756-A4, 1756-A7, 1756-A10, 1756-A13, 1756-A17 | |
| Wire size | Power - 2.5 mm ² (14 AWG) solid or stranded copper wire rated at 90 °C (194 °F), or greater, 1.2 mm (3/64 in.) insulation max Annunciator - 0.25...2.5 mm ² (22...14 AWG) solid or stranded copper wire rated at 90 °C (194 °F), or greater, 1.2 mm (3/64 in.) insulation max | |
| Wire category ⁽⁶⁾ | 3 - on annunciator ports 1 - on power ports 3 - on 1756-CPR2 connections | |
| Pilot duty rating | Annunciator - not rated | |
| Conductor screw torque | 0.79 N•m (7 lb•in) | |
| Solid-state relay contact | 240V AC/DC ⁽⁷⁾ | |
| North American temperature code | T3C | T4 |
| IEC temperature code | T3 | T4 |
| Enclosure type rating | None (open-style) | |

- (1) UL certification for 120/240V AC, 50/60 Hz nominal. Rockwell Automation specified 85...265V AC, 47...63 Hz.
(2) UL certification for 24V DC nominal. Rockwell Automation specified 18...32V DC.
(3) The hold-up time is the time between input voltage removal and DC power failure.
(4) Use time-delay type overcurrent protection in all ungrounded conductors.
(5) This fuse is intended to guard against fire hazard due to short circuit conditions.
(6) Use this conductor category information for planning conductor routing. See the Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).
(7) Do not exceed 50 mA; resistive only.

Table 11 - Environmental Specifications - Redundant Power Supplies

| Attribute | 1756-PA75R | 1756-PB75R |
|--|---|------------|
| Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock) | 0...60 °C (32...140 °F) | |
| Temperature, surrounding air, max | 60 °C (140 °F) | |
| Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock) | -40...85 °C (-40...185 °F) | |
| Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat) | 5...95% noncondensing | |
| Vibration IEC 60068-2-6 (Test Fc, Operating) | 2 g @ 10...500 Hz | |
| Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 30 g | |
| Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 50 g | |
| Emissions CISPR 11 (IEC 61000-6-4) | Class A | |
| ESD immunity IEC 61000-4-2 | 6 kV contact discharges 8 kV air discharges | |
| Radiated RF immunity IEC 61000-4-3 | 10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM at 1890 MHz 3V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz | |
| EFT/B immunity IEC 61000-4-4 | ±4 kV at 5 kHz on power ports ±4 kV at 5 kHz on annunciator ports | |

Table 11 - Environmental Specifications - Redundant Power Supplies

| Attribute | 1756-PA75R | 1756-PB75R |
|---|---|--|
| Surge transient immunity IEC 61000-4-5 | ±1 kV line-line (DM) and ±2 kV line-earth (CM) on power ports | |
| Conducted RF immunity IEC 61000-4-6 | 15V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz | |
| Voltage variation IEC 61000-4-11 | 30% dips for 1 period at 0° and 180° on AC supply ports 60% dips for 5 and 50 periods on AC supply ports ±10% fluctuations for 15 min on AC supply ports >95% interruptions for 250 periods on AC supply ports | N/A |
| Voltage variation IEC 61000-4-29 | N/A | 10 ms interruption on DC supply ports 60% dips for 100 ms on DC supply ports 100% dips for 50 ms on DC supply ports ±20% fluctuations for 15 min on DC supply ports 5 s interruptions on DC supply ports |

Table 12 - Certifications - Redundant Power Supplies

| Certification ⁽¹⁾ | 1756-PA75R | 1756-PB75R |
|------------------------------|---|------------|
| c-UL-us | UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810. | |
| CSA | CSA Certified Process Control Equipment. See CSA File LR54689C. CSA Certified Process Control Equipment for Class I, Division 2 Group A,B,C,D Hazardous Locations. See CSA File LR69960C. | |
| FM | FM Approved Equipment for use in Class I Division 2 Group A,B,C,D Hazardous Locations | |
| CE | European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) European Union 2006/95/EC LVD, compliant with: <ul style="list-style-type: none"> EN 61131-2; Programmable Controllers (Clause 11) | |
| RCM | Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> EN 61000-6-4; Industrial Emissions | |
| Ex | European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> EN 60079-15; Potentially Explosive Atmospheres, Protection "n" EN 60079-0; General Requirements II 3 G Ex nA IIC T4 Gc | |
| KC | Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> Article 58-2 of Radio Waves Act, Clause 3 | |

(1) When marked. See the Product Certification link at <http://www.ab.com> for Declarations of Conformity, Certificates, and other certification details.

Table 13 - Technical Specifications - ControlLogix-XT Redundant Power Supplies

| Attribute | 1756-PAXTR | 1756-PBXTR |
|-----------------------------|--------------------------------------|-------------|
| Input voltage range | 85...265V AC ⁽¹⁾ | 18...32V DC |
| Input voltage | 120V/240V AC | 24V DC |
| Input frequency range | 47...63 Hz | DC |
| Input power, max | 75VA 65 W | 75W |
| Output power, max | 42 W @ 0...60 °C (32...140 °F) | |
| Hold-up time ⁽²⁾ | 2 cycles @ 60 Hz 2 cycles @ 50 Hz | 20 ms |
| Inrush current, max | 20 A | 30 A |
| Current capacity at 1.2V | 1.5 A | |
| Current capacity at 3.3V | 4 A | |
| Current capacity at 5.1V | 8 A | |

Table 13 - Technical Specifications - ControlLogix-XT Redundant Power Supplies

| Attribute | 1756-PAXTR | 1756-PBXTR |
|---------------------------------|--|------------|
| Current capacity at 24V | 1.75 A | |
| Annunciator power | 240V AC 50/60 Hz, 240V DC, 50 mA, resistive only | |
| Overcurrent protection, max | User-supplied 15 A ⁽³⁾ | |
| Fusing | Non-replaceable fuse is soldered in place ⁽⁴⁾ | |
| Isolation voltage | 250V (continuous), Reinforced Insulation Type, Power Input to Backplane, Power Input to Annunciator, Annunciator to Backplane Type tested at 3250V DC for 60 s | |
| Dimensions (HxWxD), approx | 17.5 x 14.5 x 13.7 cm (6.9 x 5.7 x 5.4 in.) | |
| Weight, approx | 1.45 kg (3.2 lb) | |
| Chassis | 1756-A4, 1756-A7, 1756-A10, 1756-A13, 1756-A17 | |
| Wire size | Power - 2.5 mm ² (14 AWG) solid or stranded copper wire rated at 90 °C (194 °F), or greater, 1.2 mm (3/64 in.) insulation max Annunciator - 0.25...2.5 mm ² (22...14 AWG) solid or stranded copper wire rated at 90 °C (194 °F), or greater, 1.2 mm (3/64 in.) insulation max | |
| Wire category ⁽⁵⁾ | 1 - on power ports 3 - on annunciator ports 3 - on 1756-CPR2 connections | |
| Pilot duty rating | Annunciator - not rated | |
| Conductor screw torque | 0.79 N•m (7 lb•in) | |
| Solid-state relay contact | 240V AC/DC ⁽⁶⁾ | |
| North American temperature code | T4A | |
| IEC temperature code | T4 | |
| Enclosure type rating | None (open-style) | |

(1) UL certification for 120/240V AC, 50/60 Hz nominal. Rockwell Automation specified 85...265V AC, 47...63 Hz.

(2) The hold-up time is the time between input voltage removal and DC power failure.

(3) Use time-delay type overcurrent protection in all ungrounded conductors.

(4) This fuse is intended to guard against fire hazard due to short circuit conditions.

(5) Use this conductor category information for planning conductor routing. See Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

(6) Do not exceed 50 mA; resistive only.

Table 14 - Environmental Specifications - XT Redundant Power Supplies

| Attribute | 1756-PAXTR | 1756-PBXTR |
|--|--|------------|
| Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock) | -25...70 °C (13...158 °F) | |
| Temperature, surrounding air, max | 70 °C (158 °F) | |
| Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock) | -40...85 °C (-40...185 °F) | |
| Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat) | 5...95% noncondensing | |
| Vibration IEC 60068-2-6 (Test Fc, Operating) | 2 g @ 10...500 Hz | |
| Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 30 g | |
| Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 50 g | |
| Emissions CISPR 11 (IEC 61000-6-4) | Class A | |
| ESD immunity IEC 61000-4-2 | 6 kV contact discharges 8 kV air discharges | |

Table 14 - Environmental Specifications - XT Redundant Power Supplies

| Attribute | 1756-PAXTR | 1756-PBXTR |
|---|---|--|
| Radiated RF immunity IEC 61000-4-3 | 10V/m with 1 kHz sine-wave 80% AM from 80...1000 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM at 1890 MHz 3V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz | |
| EFT/B immunity IEC 61000-4-4 | ±4 kV at 5 kHz on power ports ±4 kV at 5 kHz on annunciator ports | |
| Surge transient immunity IEC 61000-4-5 | ±1 kV line-line (DM) and ±2 kV line-earth (CM) on power ports | |
| Conducted RF immunity IEC 61000-4-6 | 15V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz | |
| Voltage variation IEC 61000-4-11 | 30% dips for 1 period at 0° and 180° on AC supply ports 60% dips for 5 and 50 periods on AC supply ports ±10% fluctuations for 15 min on AC supply ports >95% interruptions for 250 periods on AC supply ports | N/A |
| Voltage variation IEC 61000-4-29 | N/A | 10 ms interruption on DC supply ports 60% dips for 100 ms on DC supply ports 100% dips for 50 ms on DC supply ports ±20% fluctuations for 15 min on DC supply ports 5 s interruptions on DC supply ports |

Table 15 - Certifications - XT Redundant Power Supplies

| Certification ⁽¹⁾ | 1756-PAXTR | 1756-PBXTR |
|------------------------------|---|------------|
| c-UL-us | UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810. | |
| CE | European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) European Union 2006/95/EC LVD, compliant with: <ul style="list-style-type: none"> EN 61131-2; Programmable Controllers (Clause 11) | |
| RCM | Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> EN 61000-6-4; Industrial Emissions | |
| Ex | European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> EN 60079-15; Potentially Explosive Atmospheres, Protection "n" EN 60079-0; General Requirements II 3 G Ex nA IIC T4 Gc X | |
| KC | Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> Article 58-2 of Radio Waves Act, Clause 3 | |

(1) When marked. See the Product Certification link at <http://www.ab.com> for Declarations of Conformity, Certificates, and other certification details.

Redundant Power Supply Chassis Adapter Module

Table 16 - Technical Specifications - Redundant Power Supplies Chassis Adapter Module

| Attribute | 1756-PSCA2 | 1756-PSCA2XT |
|------------------------------|------------------------------|--------------|
| Current capacity at 1.2V DC | 1.5 A | |
| Current capacity at 3.3V DC | 4 A | |
| Current capacity at 5.1V DC | 15 A | |
| Current capacity at 24V DC | 2.8 A | |
| Wire category ⁽¹⁾ | 3 - on 1756-CPR2 connections | |

Table 16 - Technical Specifications - Redundant Power Supplies Chassis Adapter Module

| Attribute | 1756-PSCA2 | 1756-PSCA2XT |
|---------------------------------|-------------------|--------------|
| North American temperature code | T5 | T4A |
| IEC temperature code | T5 | T4 |
| Enclosure type rating | None (open-style) | |

(1) Use this conductor category information for planning conductor routing. See the Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).

Table 17 - Environmental Specifications - Redundant Power Supplies Chassis Adapter Module

| Attribute | 1756-PSCA2 | 1756-PSCA2XT |
|--|--|----------------------------|
| Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock) | 0...60 °C (32...140 °F) | -25...70 °C (-13...158 °F) |
| Temperature, surrounding air, max | 60 °C (140 °F) | 70 °C (158 °F) |
| Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock) | -40...85 °C (-40...185 °F) | |
| Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat) | 5...95% noncondensing | |
| Vibration IEC 60068-2-6 (Test Fc, Operating) | 2 g @ 10...500 Hz | |
| Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 30 g | |
| Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock) | 50 g | |
| Emissions CISPR 11 (IEC 61000-6-4) | Class A | |
| ESD immunity IEC 61000-4-2 | 6 kV contact discharges 8 kV air discharges | |
| Radiated RF immunity IEC 61000-4-3 | 10V/m with 1 kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM at 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM at 1890 MHz 3V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz | |

Table 18 - Certifications - Redundant Power Supplies Chassis Adapter Module

| Certification ⁽¹⁾ | 1756-PSCA2 | 1756-PSCA2XT |
|------------------------------|---|--------------|
| c-UL-us | UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810. | |
| CSA | CSA Certified Process Control Equipment. See CSA File LR54689C. CSA Certified Process Control Equipment for Class I, Division 2 Group A,B,C,D Hazardous Locations. See CSA File LR69960C. | N/A |
| FM | FM Approved Equipment for use in Class I Division 2 Group A,B,C,D Hazardous Locations | N/A |
| CE | European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) | |

Table 18 - Certifications - Redundant Power Supplies Chassis Adapter Module

| | |
|-----|---|
| RCM | Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> • EN 61000-6-4; Industrial Emissions |
| Ex | European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> • EN 60079-15; Potentially Explosive Atmospheres, Protection "n" • EN 60079-0; General Requirements • II 3 G Ex nA IIC T5 Gc X |
| KC | Korean Registration of Broadcasting and Communications Equipment, compliant with: <ul style="list-style-type: none"> • Article 58-2 of Radio Waves Act, Clause 3 |

(1) When marked. See the Product Certification link at <http://www.ab.com> for Declarations of Conformity, Certificates, and other certification details.

Power Load and Transformer Sizing

The following graphs show the input power requirements for the power supplies, given the power they are providing to the modules in the chassis.

Follow these steps to determine the power requirements for your chassis.

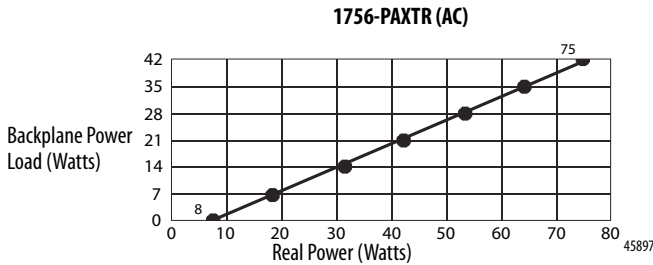
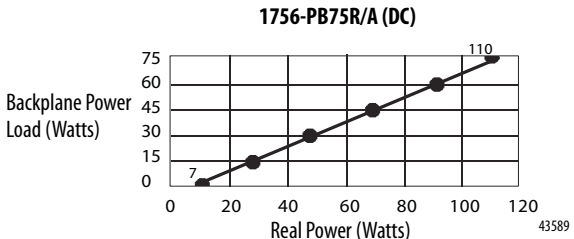
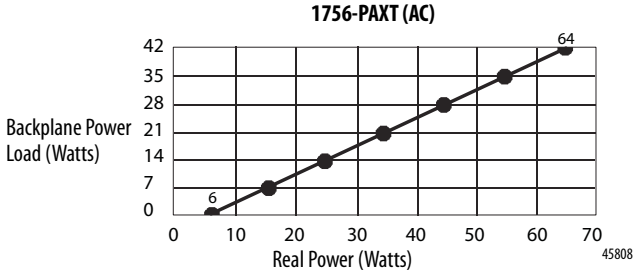
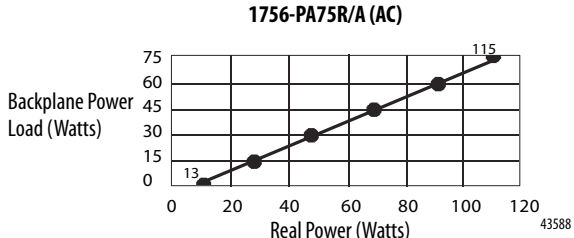
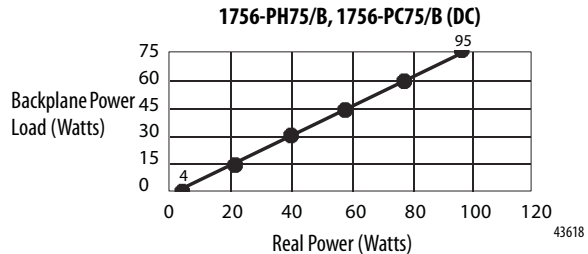
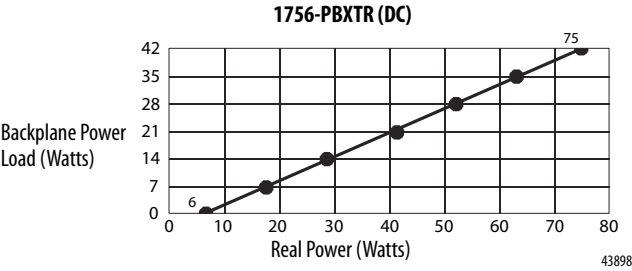
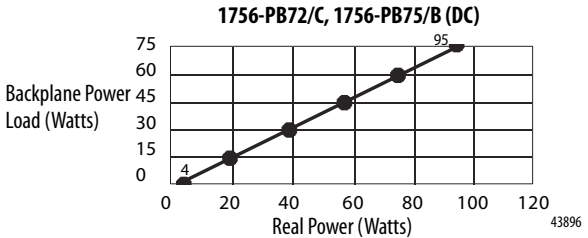
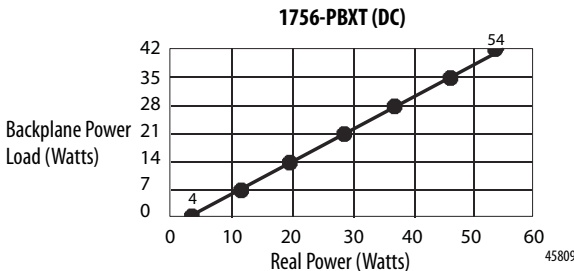
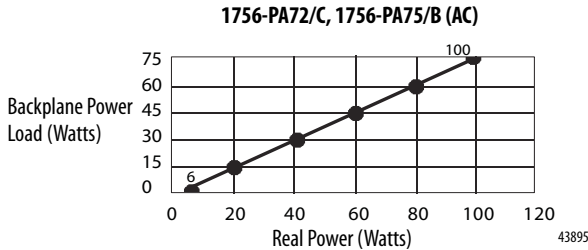
1. Calculate the Backplane Power Load by adding the power draw (in Watts) for all of the planned modules.

For module power draws, refer to the module specification tables in the ControlLogix Selection Guide, publication [1756-SG001](#).

2. Locate the Backplane Power Load on the graph's vertical (y) axis and determine the corresponding Real Power (input-power) rating on the horizontal (x) axis.

The Real Power value is the amount of power consumed by the power supply.

Power Supply Power Requirements



Apparent Power (Watts) = Transformer Load (VA) = Real Power (Watts)

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

| Resource | Description |
|---|---|
| ControlLogix Selection Guide, publication 1756-SG001 | Provides overview of the ControlLogix system and its products. |
| ControlLogix Chassis Specifications Technical Data, publication 1756-TD006 | Provides technical specifications for ControlLogix chassis. |
| ControlLogix Chassis and Power Supplies Installation Instructions, publication 1756-IN005 | Provides planning and installation information for the ControlLogix chassis and power supplies. |
| ControlLogix System User Manual, publication 1756-UM001 | Provides information on how to install, configure, program, and use ControlLogix systems. |
| Industrial Automation Wiring and Grounding Guidelines, publication 1770.4.1 | Provides general guidelines for installing a Rockwell Automation® industrial system. |
| Product Certifications website, http://www.ab.com | Provides declarations of conformity, certificates, and other certification details. |

You can view or download publications at <http://www.rockwellautomation.com/literature/>. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

Notes:

Important User Information

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice.

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

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