

PowerWorx®

Power Distribution Products

3rd Edition





PowerWorx® Power Distribution Products

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As networks and the variety of powered network devices grow, so does the need for reliable power distribution and protection in multimedia broadband networks. TE PowerWorx power distribution products have been engineered from the ground up to properly protect and distribute power to valuable, revenue-generating network equipment.

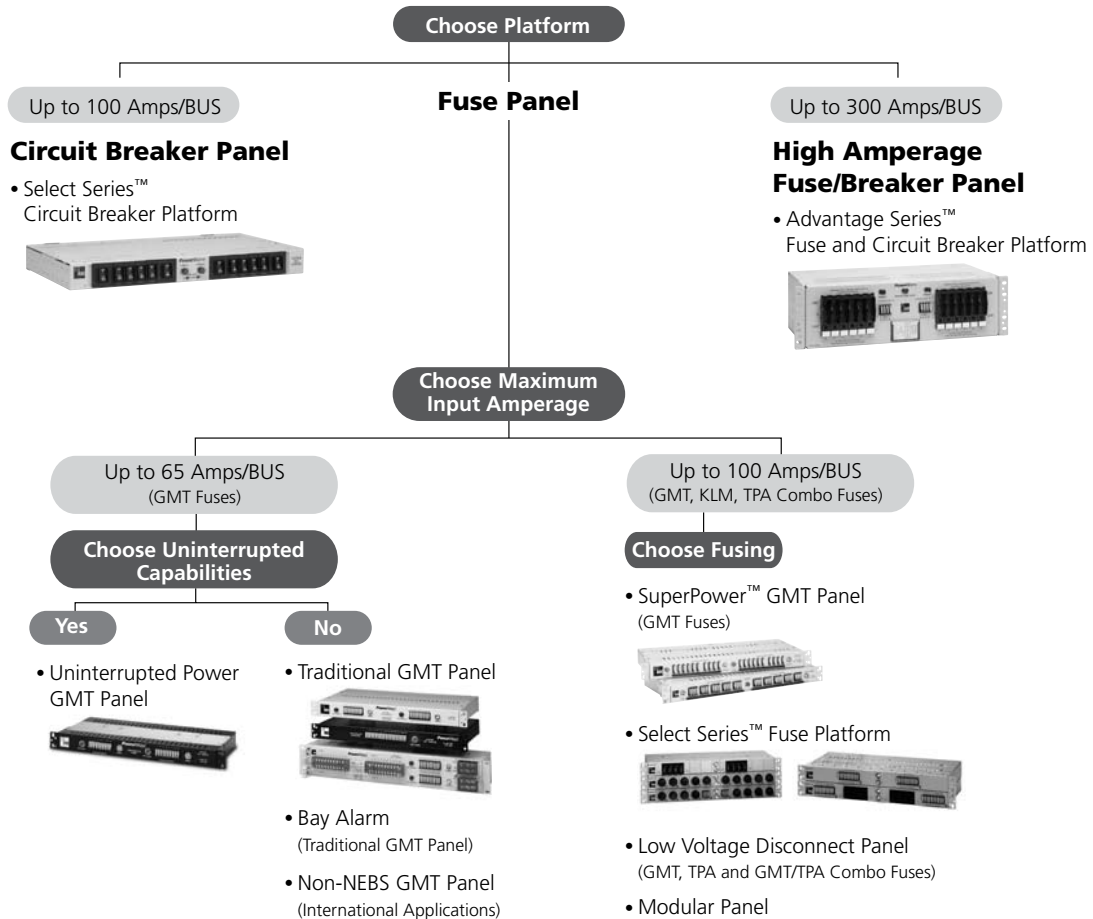
PowerWorx panels are independently tested to comply with the industry's highest standards, including CE, IEC, UL, NEBS Level 3, Telcordia (BellCore), CSA, and NEC 2002.

Flexible PowerWorx configurations suit almost every network application and the platform sets a new standard – delivering the power and the protection that service providers need.

Features

- Up to a 15-year warranty
- Compliant with all major standards, including UL, NEBS Level 3, Telcordia (BellCore), NEC 2002, CSA, IEC, and CE
- Backed by TE quality, manufacturing excellence and exceptional customer service
- Flexible platform for use in central offices, headends, hubs, remote sites, etc.

PowerWorx Platform Decision Matrix





PowerWorx® Platform

At a glance

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	Voltage	Input Amp.	Max. Output Amp.	Access	Max. GMT Positions	Max. KLM Positions	Max. TPA Positions	Max. Circuit Breakers	Other Features
Traditional GMT	±24 or 48 VDC	65 A	15 A	Standard and Front	Single 40, Dual 20 set-screw	N/A	N/A	N/A	
Uninterrupted	-24/-48 VDC	60 A	15 A	Standard and Front	Dual 10	N/A	N/A	N/A	Uninterrupted Power
SuperPower™	±24 or 48 VDC	100 A	15 – 20 A	Standard and Front	Dual 20	N/A	N/A	N/A	
Select Series™ Fuse	-24/-48 VDC	100 A	50 A*	Standard	Dual 10	Dual 5	Dual 4	N/A	
Select Series™ Breaker	±24 or 48 VDC	100 A	50 A	Standard	N/A	N/A	N/A	Dual 8	
Select Series™ LVD	-48 VDC	2 x 75 A per side	50 A*	Standard	Dual 5	N/A	Dual 4	N/A	LVD
Modular LVD	-48 VDC	2 x 75 A per side	50 A*	Front	Dual 8	N/A	Dual 4	N/A	LVD
Advantage Series™	-48 VDC	300 A	125 A	Standard	Dual 4	N/A	N/A	Dual 6	
GMT 60e	-48 VDC	60 A	15 A	Standard	Dual 20	N/A	N/A	N/A	
DSX PDP	-42 to -56 VDC	60 A	3 A	Standard	Single 20	N/A	N/A	N/A	

*GMT=10 -15 A KLM = Up to 30 A TPA = Up to 50 A

Note: Don't forget about the input/output rule: The combined outgoing voltage cannot exceed what is coming in from the Battery Distribution Fuse Bay (BDFB)



PowerWorx® Traditional GMT Series

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With input power up to 65 Amps per bus, the Traditional GMT Series eliminates the need to stock varying amperage fuse panels. Fuse management is simplified by accommodating up to 15 Amps of output power per fuse position – without the need to space fuses. A self-configuring voltage and polarity feature allows a single panel to support most applications, providing $\pm 24\text{Vdc}$ or $\pm 48\text{Vdc}$ power.



PowerWorx®

Traditional GMT Series

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Specifications

PHYSICAL

Dimensions (HxWxD)

Standard access: 1.75" x 17.12" x 8" (44 x 435 x 203 mm)
 Total-front-access: 3.5" x 21.25" x 4" (89 x 540 x 102 mm)
 Dimensions do not include depth of power connectors, alarm lamps or fuses.

Weight:

Approximately 10 lbs (4.5 kg)

Rack Mounting Width:

Standard Access and PWX-N01FGCSD10PSPD: 19" or 23" (483 or 584 mm) flush or recess-mountable with universal mounting brackets. EIA/WECO or ETSI mounting options available.

Housing Material:

Total-front-access: 23" (584 mm) only (except PWX-N01FGCSD10PSPD). Cold-rolled 16 gauge steel. Polycarbonate protective cover provided with all panels.

Housing Finish:

Putty white or black powder-coat

POWER

Fuse Capacity¹:

0.2 to 15 Amps (see chart below for details)

Panel Capacity:

65 Amps (maximum) per bus

Operating Voltage:

±24 Vdc (±21 to ±30 Vdc tolerance) or ±48 Vdc (±42 to ±56 Vdc tolerance)

Power Dissipation:

40 watts maximum

Fail Alarm Indicators:

Red LED indicates blown fuse. Green LED indicates power on. Alarm output contacts provided for audible, visual and remote alarms.

Alarm Contact Connection:

Wire-wrap or screw-down barrier terminal strip

Alarm Contact Relay:

1 Amp maximum

Input Feed Connection:

Two-hole compression-lug (stud-type) accepts range of wire up to 2 AWG. Set screw barrel connector accepts range of wire up to 6 AWG. Panel ships with two 2-hole lugs (accepting 6 AWG wire) per power bus.

Output Feed Connection:

Screw-down barrier terminal strip or set screw barrel terminal strip accepts range of wire up to 12 AWG.

Grounding:

Two-post grounding accepts range of wire up to #10 AWG for single connection; two-hole compression lug (stud-type) accepts wire up to #2 AWG.

Fuse Configuration	Output Connector Type	Max. Amperage Per Fuse Position	Range Of Bare Wire Accepted	Post/ Stud Size	Distance Between Barriers Walls
S10, D10	Screw-Down	15 Amps	12-22 AWG	#6-32	0.325" (8 mm)
S10, D10	Set Screw	15 Amps	12-24 AWG	NA	NA
S20	Screw-Down	15 Amps	12-20 AWG	#6-32	0.325" (8 mm)
S20	Set Screw	15 Amps	12-24 AWG	NA	NA
S40	Screw-Down	10 Amps	16-24 AWG	#3-48	0.20" (5 mm)
S40	Set Screw	15 Amps	12-24 AWG	NA	NA
D20	Screw-Down	10 Amps	16-24 AWG	#3-48	0.20" (5 mm)
D20	Set Screw	15 Amps	12-24 AWG	NA	NA

ENVIRONMENTAL

Storage Temperature:

-45° to 85°C (-49 to 185° F)

Operating Temperature:

-5° to 55°C (23 to 131° F)

Operating Humidity:

0% to 95%, non-condensing

Operating Altitude:

Up to 13,000 feet (3.96 km)

STANDARDS:

Meets UL, Telcordia (Bellcore), NEC 2002, CSA, NEBS Level 3, IEC, and CE standards

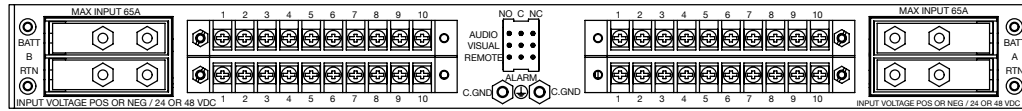
WARRANTY:

15 years

¹**Important Note:** The fuse manufacturer recommends that fuses be continuously operated at no more than 80% of their nominal current rating.

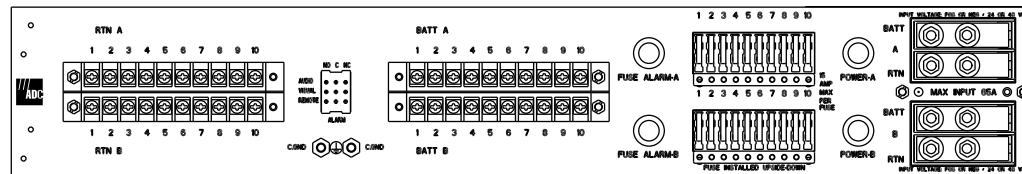


Front view



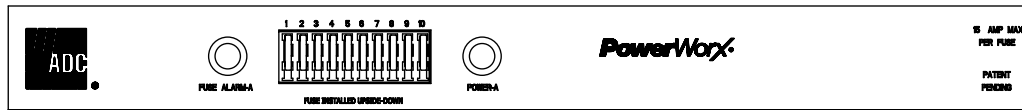
Rear view

Standard 10/10-Position Dual Rear Power Feed
PXW-001RGCS10PWDP

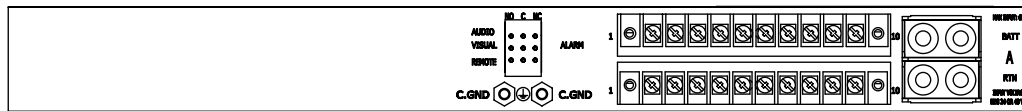


Front view

Total-Front-Access 10/10-Position Dual Power Feed
PXW-001FGCS10PWDP

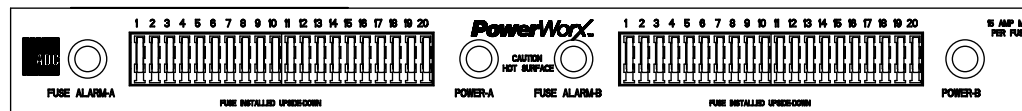


Front view

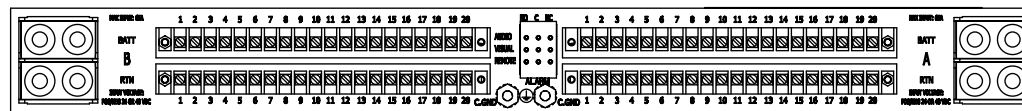


Rear view

Standard Single 10 Rear Power Feed
PXW-001RGCS10PWDP



Front view



Rear view

Standard 10/10-Position Dual Rear Power Feed
PXW-001RGCS20PWDP



PowerWorx®

Traditional GMT Series

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Ordering Information

Traditional GMT Series		
Standard front and rear access fuse panels	Shipping	Catalog Number
Dual power feed, 10/10 position fuse configuration Wire-wrap alarm connection Putty White Black	Quick Ship Standard	PWX-001RGCSD10PWDP PWX-001RGCSD10PWDB
Dual power feed, 10/10 position fuse configuration Screw-down barrier terminal strip alarm contact connection Putty White Black	Standard Standard	PWX-001RGCSD10PSDP PWX-001RGCSD10PSDB
Dual power feed, 20/20 position fuse configuration Wire-wrap alarm connection Putty White	Standard	PWX-001RGCSD20PWDP
Total front access fuse panels		
Dual power feed, 10/10 position fuse configuration Putty white See alarm contact connection options below Screw-down barrier terminal strip Wire-wrap	Standard Standard	PWX-N01FGCSD10PSDP PWX-002FGCSD10PWDP

Note: Panels ship with dummy fuses installed in all positions, one fused equipment designation card holder and card, a voltage designation label, two 2-hole lugs per power bus, two ring lugs (for grounding), and one designation pin holder per fuse holder.

Other custom configurations available. For more information call TE at 1-800-366-3891



PowerWorx[®] Uninterrupted Power GMT Series

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To ensure constant powering of fused network equipment, the Uninterrupted Power GMT Series features two input power feeds. If power to one fails, the other serves as backup – taking on the load of the failed circuit while maintaining its own load. Schottky-steering diodes ensure panel uptime until input power is restored, while a patent-pending heat dissipation design ensures safety. The panel offers input power up to 60 Amps per bus.



PowerWorx®

Uninterrupted Power GMT Series

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Specifications

PHYSICAL

Dimensions (HxWxD) Standard access: 1.75" x 17.12" x 10" (44 x 435 x 254 mm)
 Total-front-access: 3.5" x 21.25" x 5.17" (89 x 540 x 131 mm)
 Dimensions do not include depth of power connectors, alarm lamps or fuses

Weight: Approximately 11 lbs (4.5 kg)

Rack Mounting Width: Standard Access: 19" or 23" (483 or 584 mm) flush or recess-mountable with universal mounting brackets. EIA/WECO or ETSI mounting options available
 Total-front-access: 23" (584 mm) flush or recess-mountable into EIA and WECO racks

Housing Material: Cold-rolled 16 gauge steel. Polycarbonate protective cover provided with all panels

Housing Finish: Putty white or black powder-coat

POWER

Fuse Capacity¹: 0.2 to 15 Amps

Panel Capacity: 60 Amps (maximum) per bus

Operating Voltage: -24 Vdc (-21 to -30 Vdc tolerance) or -48 Vdc (-42 to -56 Vdc tolerance)

Power Dissipation: 40 watts maximum

Fail Alarm Indicators: Red LED indicates blown fuse. Green LED indicates power on

Alarm Contact Connection: Wire-wrap alarm output contacts provided for audio, visual and remote alarms

Alarm Contact Relay: 1 Amp maximum

Input Feed Connection: Two-hole compression-lug (stud-type) accepts range of wire up to 2 AWG. Set screw barrel connector accepts range of wire up to 6 AWG. Panel ships with two 2-hole lugs (accepting 6 AWG wire) per power bus.

Output Feed Connection: Screw-down barrier terminal strip accepts range of wire up to 12 AWG

Grounding: Two-post grounding accepts range of wire up to #10 AWG for single connection; two-hole compression lug (stud-type) accepts wire up to #2 AWG.

Fuse Configuration	Output Connector Type	Max. Amperage Per Fuse Position	Range Of Bare Wire Accepted	Post/ Stud Size	Distance Between Barriers Walls
D10	Screw-Down	15 Amps	12-22 AWG	#6-32	0.325" (8 mm)

ENVIRONMENTAL

Storage Temperature: -45° to 85°C (-49 to 185° F)

Operating Temperature: -5° to 55°C (23 to 131° F)

Operating Humidity: 0% to 95%, non-condensing

Operating Altitude: Up to 13,000 feet (3.96 km)

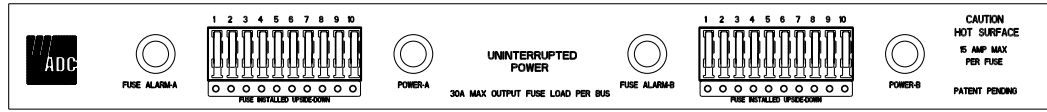
STANDARDS

Meets UL, Telcordia (Bellcore), NEC 2002, CSA, NEBS Level 3, IEC, and CE standards Lifetime

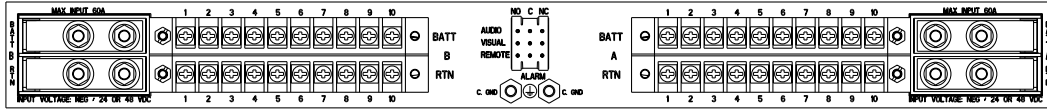
WARRANTY

15 years

¹Important Note: The fuse manufacturer recommends that fuses be continuously operated at no more than 80% of their nominal current rating.



Front view



Rear view

Each side (BUS) must be able to handle load if A or B is lost.
(i.e. 30 amps or 60 total per side)

Standard 10/10-Position Dual Rear Power Feed

Sample Catalog Number: PWX-001RGCS10PWDP

Ordering Information

Uninterrupted Power GMT Series		
Standard front and rear access fuse panels	Shipping	Catalog Number
<ul style="list-style-type: none"> Dual power feed, 10/10 position fuse configuration Wire-wrap alarm contact connection See color options below <ul style="list-style-type: none"> Putty white Black 	<div style="border: 1px solid black; border-radius: 10px; padding: 2px; display: inline-block;"> Quick Ship Standard </div>	PWX-011RGCS10PWDP PWX-011RGCS10PWDB

Note: Panels ship with dummy fuses installed in all positions, one designation card holder and card, one voltage designation label, two 2-hole lugs per power bus, two ring lugs (for grounding), and one designation pin holder per fuse holder.



PowerWorx SuperPower GMT Series panels accept high input power – up to 100 Amps per bus – with up to 20 Amps output power per GMT fuse position. Standard (front and rear access) and total-front-access panels are available. User-friendly “upside down” fuse holders and high-brilliance LEDs allow technicians to quickly identify and replace blown fuses in the field. Other features include two-post grounding, removable clear polycarbonate input/output connector covers, and a selection of connector and fuse configurations.

These panels operate under either positive or negative voltage conditions.



PowerWorx[®] SuperPower™ GMT Series

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Specifications

PHYSICAL

Dimensions (HxWxD) Standard access: 1.75" x 17.12" x 8" (44 x 435 x 203 mm)
Total-front-access: 3.5" x 21.25" x 4" (89 x 540 x 102 mm)
Dimensions do not include depth of power connectors, alarm lamps or fuses.

Weight: Approximately 10 lbs (4.5 kg)

Rack Mounting Width: Standard Access and PWX-N01FGCSD10PSPD: 19" or 23" (483 or 584 mm) flush or recess-mountable with universal mounting brackets. EIA/WECO or ETSI mounting options available
Total-front-access: 23" (584 mm) flush or recess-mountable into EIA and WECO racks

Housing Material: Cold-rolled 16 gauge steel. Polycarbonate protective cover provided with all panels

Housing Finish: Putty white powder-coat

POWER

Fuse Capacity¹: 0.2 to 20 Amps

Panel Capacity: 100 Amps maximum per bus (200 Amps total)

Operating Voltage: ±24 Vdc (-21 to -30 Vdc tolerance) or ±48 Vdc (42 to 56 Vdc tolerance)

Power Dissipation: 100 watts maximum

Fail Alarm Indicators: Red LED indicates blown fuse. Green LED indicates power on

Alarm Contact Connection: Wire-wrap connections. Alarm output contacts provided for audible, visual and remote alarms

Alarm Contact Relay: 1 Amp maximum

Input Feed Connection: Two-hole compression-lug (stud-type) accepts range of wire up to 2 AWG. Panel ships with two 2-hole lugs (accepting 2 AWG stranded wire) per power bus.

Output Feed Connection: Screw-down barrier terminal strip accepts range of wire up to 12 AWG.

Grounding: Two-post grounding accepts range of wire up to #10 AWG for single connection; two-hole compression lug (stud-type) accepts wire up to #2 AWG.

Fuse Configuration	Output Connector Type	Max. Amperage Per Fuse Position	Range Of Bare Wire Accepted	Post/ Stud Size	Distance Between Barriers Walls
D10	Screw-Down	20 Amps	12-22 AWG	#6-32	0.325" (8.255 mm)
D20	Screw-Down	10-15 Amps	16-30 AWG	#3-48	0.20" (5.08 mm)

ENVIRONMENTAL

Storage Temperature: -45° to 85°C (-49 to 185° F)

Operating Temperature: -40° to 65°C (40 to 149° F)

Operating Humidity: 0% to 95%, non-condensing

Operating Altitude: Up to 13,000 feet (3.96 km)

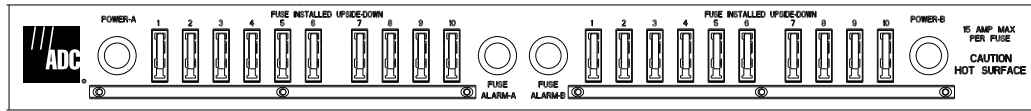
STANDARDS

Meets UL, Telcordia (Bellcore), NEC 2002, CSA, NEBS Level 3, IEC, and CE standards

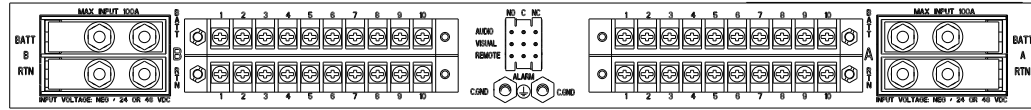
WARRANTY

15 years

¹Important Note: The fuse manufacturer recommends that fuses be continuously operated at no more than 80% of their nominal current rating.

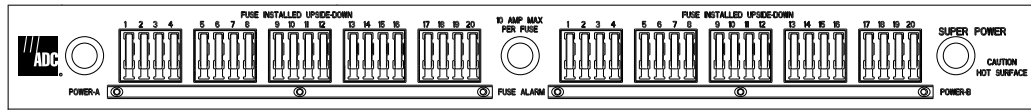


Front view

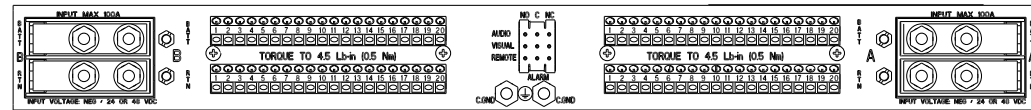


Rear view

Dual Power Feed 10/10-Position
PWX-031RXCSD10PWDP

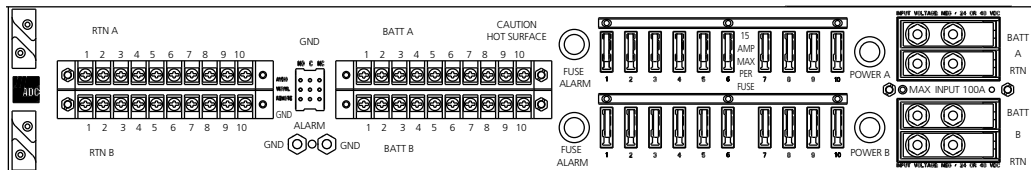


Front view



Rear view

Dual Power Feed 20/20-Position
PWX-031RGCSD20PWDP



Front view

Total-Front-Access Dual Power Feed 10/10-Position
PWX-031FGCSD10PWDP



Ordering Information

SuperPower GMT Series		
Standard front and rear access fuse panels	Shipping	Catalog Number
Dual power feed, 10/10 position fuse configuration Wire-wrap alarm contact connection Putty white 20 Amp max per fuse	Quick Ship	PWX-031RXCSD10PWDP
Dual power feed, 20/20 position fuse configuration Wire-wrap alarm contact connection Putty white 10 Amp max per fuse 15 Amp max per fuse	Standard Standard	PWX-031RGCSD20PWDP PWX-031RDCSD20PWDP
Total front access fuse panels		
Dual power feed, 10/10 position fuse configuration Wire-wrap alarm contact connection Putty white 20 Amp max per fuse 15 Amp max per fuse	Standard Standard	PWX-031FXCSD10PWDP PWX-031FGCSD10PWDP
Dual Power feed, 20/20 position fuse configuration Wire-wrap alarm contact connection Putty white 10 Amp max per fuse	Standard	PWX-031FGCSD20PWDP

Note: Panels ship with dummy fuses installed in all positions, one fused equipment designation card holder and cards, one voltage designation label, two 2-hole lugs per power bus (accepts 2 AWG stranded wire), two ring lugs (for grounding), and four sheets of perforated fuse designation cards and six plastic covers.



PowerWorx® Select Series™

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As data and telephony converge, network elements with varying amperage requirements are often mixed within the same bay. The Select Series fuse platform enables service providers to fuse this equipment from one platform, in a single rack unit, making the most of valuable space. Its compact footprint and versatility are well-suited for collocation applications where high-amperage equipment such as routers, DSLAMs, and SONET gear is installed with lower-amperage equipment. Its patent-pending modular design enables service providers to combine TPA, KTK/KLM, TPM or GMT fuses within a single rack unit. Input power up to 100 Amps per bus with up to 50 Amps output power per fuse position is available.



Specifications

PHYSICAL

- Dimensions (HxWxD):** 1.75" x 17.12" x 10" (44 x 435 x 254 mm). Dimensions do not include depth of power connectors, alarm lamps, or fuses.
- Weight:** Approximately 12.5 lbs (5.7 kg)
- Rack Mounting Width:** The standard front/rear access fuse panel can be flush- or recess-mounted into 19-inch (483 mm) or 23-inch (584 mm) EIA and WECCO racks. ETSI mounting is also available.
- Housing Material:** Cold-rolled 16 gauge steel. Polycarbonate protective cover provided with all panels
- Housing Finish:** Powder-coat putty white

POWER

- Fuse Capacity:** The fuse manufacturer recommends that GMT fuses rated 8 to 15 Amps be continuously operated at no more than 80% of their nominal current rating.
 - TPA Fuses:** 3 to 50 Amps
 - KLM/KTK¹ Fuses:** 5 to 30 Amps
 - GMT Fuses:** 0.2 to 15 Amps
- Panel Capacity:** G4 configurations accept fuses rated up to 15 Amps. G1 configurations accept fuses rated up to 10 Amps.
- Operating Voltage:** 100 Amps maximum per bus (200 Amps total, dual bus configuration)
-24 Vdc (-21 to -30 Vdc tolerance) or -48 Vdc (-42 to -56 Vdc tolerance)
- Power Dissipation:** 100 watts maximum
- Fail Alarm Indicators:** Red LED indicates blown fuse. Green LED indicates power on. Alarm output contacts provided for audible, visual, and remote alarms.
- Alarm Contact Connection:** Wire-wrap or screw-down barrier terminal strip
- Alarm Contact Relay:** 1 Amp maximum
- Input Feed Connection:** Two-hole compression lug (stud-type) accepts range of wire up to 2 AWG. Product ships with two 2-hole lugs (accepting 2 AWG wire) per power bus, plus one extra 2-hole lug.
- Output Feed Connection:** Screw-down barrier terminal strip accepts range of bare wire up to 8 AWG (TPA), 10 AWG (KLM), or 12-16 AWG (GMT).
- Grounding:** Two-post grounding accepts range of wire up to #10 AWG for single connection; two-hole compression lug (stud-type) accepts wire up to #2 AWG.

Fuse Type	Bare Wire Size	Ring Lug Size	Post Size	Distance Between Barrier Walls
TPA	8-16 AWG	8 AWG	8-32	0.378" (10 mm)
KLM/KTK1	8-16 AWG	10 AWG	8-32	0.320" (8 mm)
GMT, 4	12-22 AWG	12 AWG	6-32	0.325" (8 mm)
GMT, 5 and 10 position	14-22 AWG	14 AWG	6-32	0.260" (7 mm)
GMT, 10 position (A4 G1 combination)	16-30 AWG	16 AWG	3-48 ²	0.200" (5 mm)

ENVIRONMENTAL

- Storage Temperature:** -45° to 85°C (-49 to 185° F)
- Operating Temperature:** -5° to 55°C (23 to 131° F)
- Operating Humidity:** 0% to 95%, non-condensing
- Operating Altitude:** Up to 13,000 feet (3.96 km)

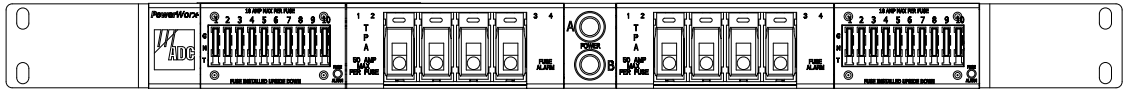
STANDARDS

Meets UL, Telcordia (Bellcore), NEC 2002, CSA, NEBS Level 3, IEC, and CE standards

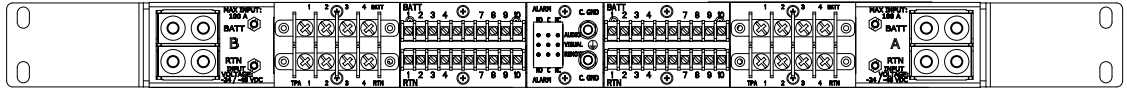
WARRANTY

15 years

¹KTK fuses are not currently rated for DC voltages by Underwriters Laboratories (UL). KTK fuses will fit in the KLM fuse holder.

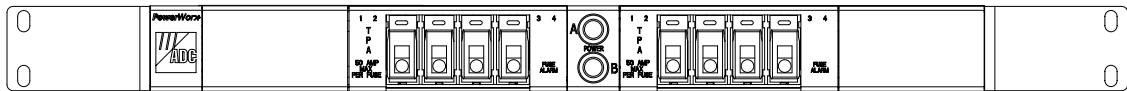


Front view

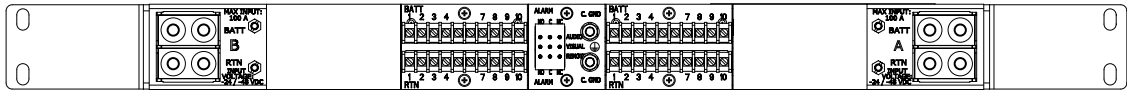


Rear view

4TPA/10 GMT
PWX-041RCA4GIYSPWP

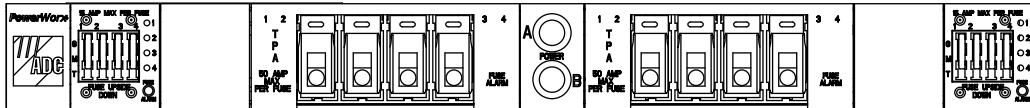


Front view

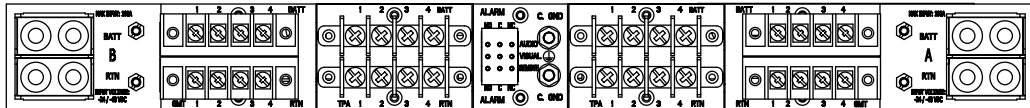


Rear view

4TPA
PWX-041RCA4XXYSPWP

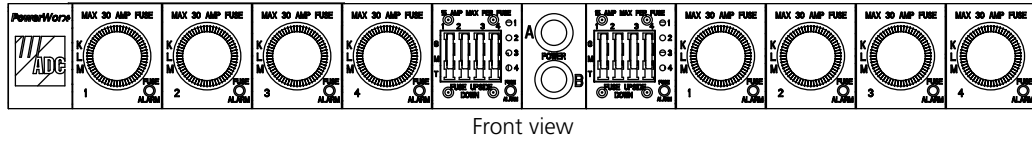


Front view

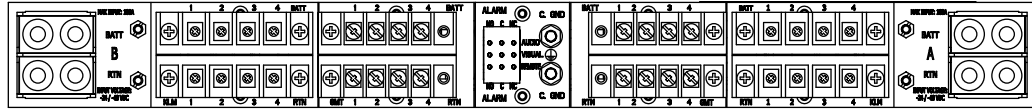


Rear view

4 TPA/4GMT
PWX-041RCA4G4YSPWP

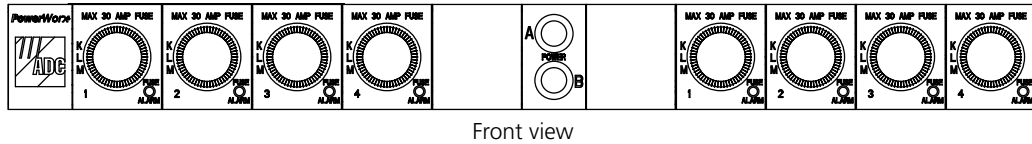


Front view

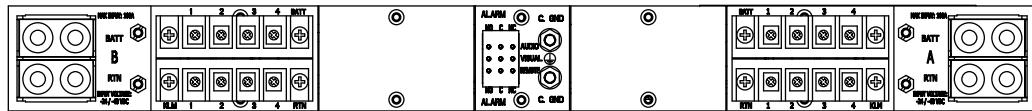


Rear view

4KLM/4GMT
PWX-041RCK4G4YSPWP



Front view



Rear view

4KLM
PWX-041RCK4XXYSPWP

Ordering Information

Select Series		
Standard front access fuse panel	Shipping	Catalog Number
Dual power feed Wire-wrap alarm contact connection Putty white See fuse configuration options below 4 KLM/4 GMT 4 TPA/4 GMT 4 TPA/10 GMT 4 TPA 4 KLM	<p>Quick Ship</p> <p>Quick Ship</p> Standard Standard Standard	PWX-041RCK4G4YSPWP PWX-041RCA4G4YSPWP PWX-041RCA4G1YSPWP PWX-041RCA4XXYSPWP PWX-041RCK4XXYSPWP

NOTE: Panels ship with dummy fuses installed in all GMT and KLM fuse positions, one designation card holder and card, one voltage designation label, two 2-hole lugs per input power bus, and two ring lugs (for grounding). Other custom configurations available. For more information call TE at 1-800-366-3891



PowerWorx®

Select Series with Low Voltage Disconnect

10/09 • 105203AE PowerWorx® Power Distribution Products



The PowerWorx Low Voltage Disconnect (LVD) fuse panel provides power distribution, protection and LVD functionality in a single chassis. The modular panel offers high-density capabilities and integrated functionality in a small, two-inch (height) panel. And the low voltage disconnect device disconnects at 39 volts DC and reconnects at 47 volts DC, protecting battery and network equipment life. The panel requires a 23-inch rack for proper mounting.

Specifications

Panel Bus Capacity

TPA:	75 Amps per input connector - 4 Bus per panel, two connectors per bus/side, 300 Amps total
GMT:	65 Amps per input connector - 2 Bus per panel, one connector per bus/side, 130 Amps total
GMT/TPA:	75 Amps per input connector - 2 Bus per panel, one connector per bus/side, 150 Amps total

Panel Fuse Capacity

TPA:	50 Amps maximum
GMT:	2/10 Amps to 15 Amps per fuse

Input Voltage Range:

-48 Vdc (-39 to -60 Vdc tolerance); -48 minimum

Low Voltage Disconnect Range:

Disconnect at 39 volts DC; Reconnect at 47 volts DC

Input Terminal Connections:

Two-hole compression lug (stud-type) – Accepts up to 2 AWG stranded wire

Output Terminal Connections:

Screw-down barrier terminal strip

Visual Alarms:

Red LED (LVD alarm), Red LED (fuse alarm) and Green LED (power on)

Alarm Contact Relay:

1 Amp maximum

Alarm Contact Connections:

Wire-wrap

Chassis Ground Connections:

Two-post grounding accepts range of wire up to #10 AWG for single connection; two-hole compression lug (stud-type) accepts wire up to #2 AWG.

Mounting:

23" EIA/WECO

Standard Dimensions:

11" deep (with cover) x 2" high

Chassis Material:

Cold rolled steel

Color:

Putty white

Finish:

Powder paint

Rear Cover:

Snap-in covers for in/out connectors

Ship Along Items:

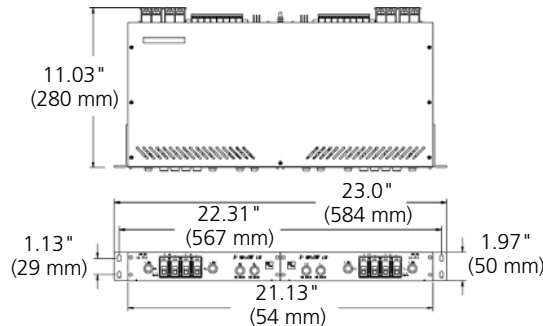
Rack mounting screws, ground lugs, mounting brackets and screws, pressure-sensitive designation cardholder and card

Standards:

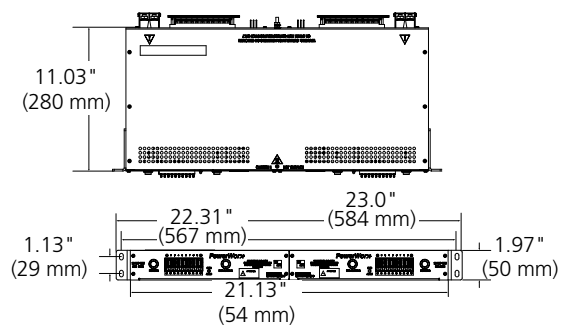
UL, NEBS L3, NEC 2002, CSA, CE, Telcordia (Bellcore)

Warranty:

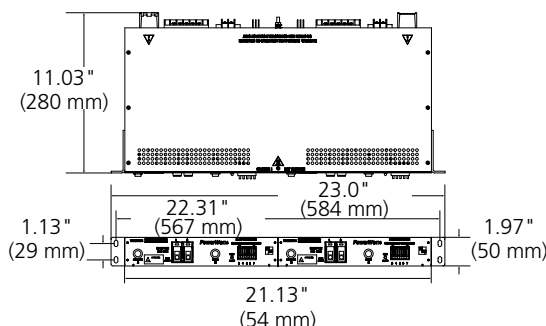
5 years



PWX-F41RBA4XXYSPHP (TPA)



PWX-F01RBG10YSPHP (GMT)



PWX-F41RDA4XXYSPHP (TPA/GMT)

* If battery voltage falls below 20 Vdc, LVD feature is disabled (contactor closes) due to NC (normally closed) contactor of LVD circuit.



Front view



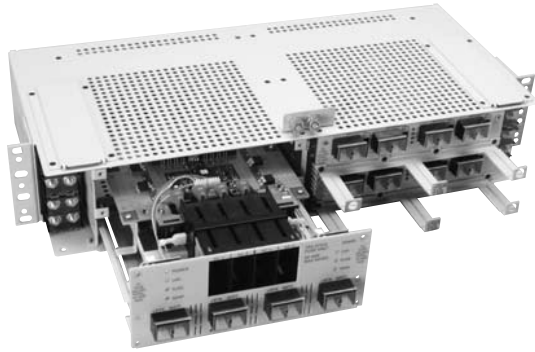
Rear view



ISO view

Ordering Information

PowerWorx Select Series		
Low voltage disconnect (LVD) fuse panel	Shipping	Catalog Number
4/4-position TPA, dual power feed, LVD	Quick Ship	PWX-F41RBA4XXYSPPH
4/4-position TPA, dual power feed, LVD with OR-ing diodes	Standard	PWX-F41RDA4XXYSPPH
10/10-position GMT, single power feed, LVD	Standard	PWX-F01RBG10YSPPH
2/2-position TPA and 5/5 position GMT	Standard	PWX-F41RBA2G5YSPPH



TE introduces a fully modular Power Distribution Panel that can support up to 4 GMT modules (8 GMT Fuses per bus A and B) or 2 TPA modules (4 TPA Fuses per bus A and B). This panel is known for high-quality and high-performance. TE has innovated new ways to add flexibility and provide features for demanding applications with this new panel.

Features:

- All Front Access
 - All input and output connections (including remote alarm terminals) and fusing is accessible from the front of the chassis.
- Fully Modular Design
 - Chassis support 2 TPA modules, or 4 GMT Modules or 1 TPA and 2 GMT modules.
 - Modules can be added as required.
 - Modules can be removed without having to disconnect the bus (A1, A2, B1, and B2) inputs.
 - Power modules are hot-swappable.
- Input Voltage Selection
 - The PDU can be used in -24Vdc or -48Vdc applications.
 - Since the panel is bus partitioned, half of the chassis (A1, A2 side) can be used to distribute -24Vdc and the other half (B1, B2 side) can be used to distribute -48Vdc.
- Solid State Low Voltage Disconnect (LVD)
 - The LVD system uses solid state switches instead of electromechanical contactors.
 - The LVD recovery system has variable settings for the -48Vdc mode.
 - The LVD recovery for the -24Vdc mode is -23 ±0.5Vdc.
 - Compares with TP-76450 battery separation requirements.
- Alarms
 - Each module is equipped with 3 LED indicators: LVD Power, Fuse
 - » Power YELLOW = -24Vdc MODE,
 GREEN = +48Vdc MODE
 - The LVD system will not activate until the power LED is on.
 - Each module is also connected with a central alarm module via the chassis backplane.
- Central Alarm Module
 - Located in the central of the chassis, this module provides...
 - » Two sets of external alarm contracts (NC/C/NO).
 - » Central LED indicator.

Applications:

- Central Office, Multimedia H.E., Remote Terminal, DSLAM's, MUX's, routers, servers and switches

Compliances:

All power distribution panels and components shall comply with the requirements of the following standards documents:

- Bellcore TR-NWT-000928, Generic Requirements for Rack Mountable Fuse Panels (Issue 1, 1990)
- Bellcore TR-TSY-000799, Telecommunications Fuses
- Bellcore GR-63-CORE, NEBS Requirements: Physical Protection
- Bellcore GR-1089-CORE, Electromagnetic Compatibility and Electrical Safety
- Underwriters Laboratory (UL)
- CE (for international markets)
- NEBS
- EU RoHS Directive 2002/95/EC-RoHS
- TP-76450 battery separation with LVD requirements

Specifications

PHYSICAL

- Dimensions (HxWxD):** 3.47 x 19.35 x 11.55 inches (88 x 491 x 293 mm)
Color: Putty white
Rack mounting: 23-inch (555 mm) WECO or ETSI

ELECTRICAL

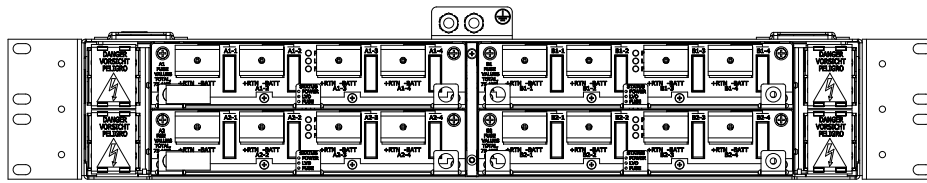
- Operating voltages:** -48 Vdc (normal), -30 to -56 Vdc tolerance
Input current: 75 Amps per bus maximum
Fuse type: TPA, GMT
Maximum fuse size
GMT model: 20 Amps per fuse, 75 Amps total per GMT module
TPA model: 50 Amps per fuse, 75 Amps total per each pair of TPA fuses (e.g., A1-1, A1-2)
Input terminal type: 2-hole compression lug (0.25 inch holes on 0.625 inch centers), Max lug width 0.620 inches
Output terminal type: Screw down terminal (8-32), Max. lug width 0.42 inches
Grounding connections: Two 1/4-inch studs on 0.625 centers

ENVIRONMENTAL

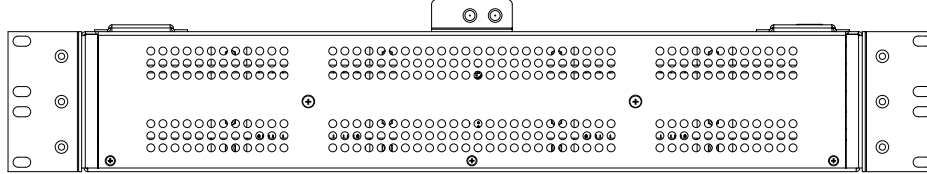
- Operating temperature:** -5° to +55° C (23 to 131° F)
 Up to 65° C (149° F) with airflow of 220 CFM or greater
Storage temperature: -45° to +85° C (-49 to 185° F)
Humidity range: 0% to 95% humidity, No condensation
Altitude range: Up to 13,000 ft. (3.96 km)
Acoustic noise: 0 dBA above ambient
Heat dissipation (fully loaded): 40 watts max., With all four buses at full load

WARRANTY

5 Years

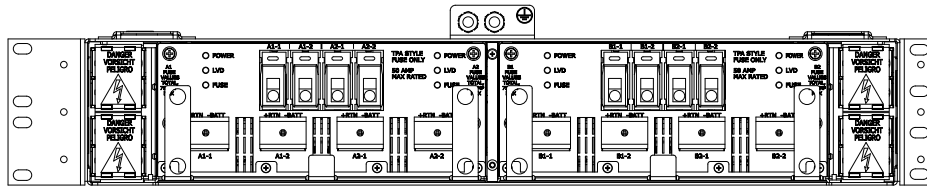


Front view

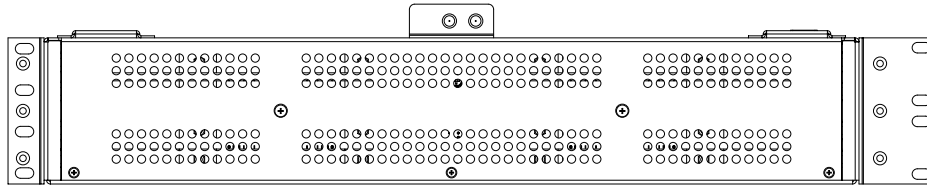


Rear view

8GMT
PWX-1AFG4DA



Front view



Rear view

4TPA
PWX-1AFA2DA

Ordering Information

Modular front access power distribution panel

GMT Positions	TPA Positions	Alarm	Low Voltage Disconnect	OR-ing	Catalog Number
16	-		X	X	PWX-1LFG4DA
8	-		X	X	PWX-1LFG2DA
16	-	X	X	X	PWX-1AFG4DA
8	-	X	X	X	PWX-1AFG2DA
16	-			X	PWX-1LFG4AA
8	-			X	PWX-1LFG2AA
4	-			X	PWX-1LFG1AA
-	8		X	X	PWX-1LFA2DA
-	8	X	X	X	PWX-1AFA2DA
-	8			X	PWX-1LFA2AA
-	8	X		X	PWX-1AFA2AA
8	4	X	X	X	PWX-1AFM2DA

Other custom configurations available. For more information call TE at 1-800-366-3891



PowerWorx® Select Series™ Circuit Breaker

10/09 • 105203AE PowerWorx® Power Distribution Products



Now you can order any combination of TE's PowerWorx Select Series circuit breaker platform configurations—up to 10 panels per configuration.

The Select Series circuit breaker platform can be configured-to-order to meet unique network powering needs. Select from various single or double pole hydraulic magnetic circuit breaker types and alarm connectors. Circuit breaker amperages can be mixed within a single panel, allowing maximum flexibility. The Select Series circuit breaker platform accepts input power up to 100 Amps per bus, and up to 50 Amps per breaker output position.

Hydraulic magnetic circuit breakers provide precise and reliable powering control. The breakers can be quickly reset to restore power, have customizable trip points (in amperes), and time delays (in seconds).

High-brilliance LEDs allow technicians to quickly identify input power failures or tripped breakers. Other features include two-post grounding and separate removable INPUT/OUTPUT protector covers.

These panels operate under either positive or negative voltage conditions.

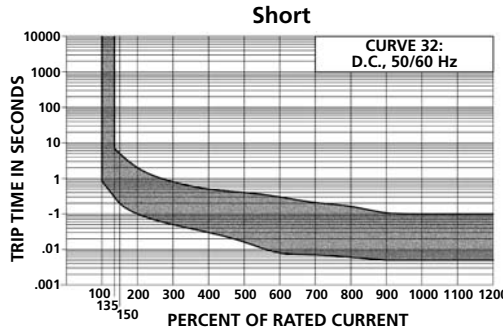
Specifications

PHYSICAL

- Dimensions (HxWxD):** 1.75" x 17.12" x 10" (44 x 435 x 254 mm). Dimensions do not include depth of power connectors, alarm LEDs, or circuit breakers.
- Weight:** Approximately 13 lbs (4.9 kg)
- Rack Mounting Width:** 19" or 23" (483 or 584 mm) recess-mountable mounting brackets. WECO/EIA rack-mountable.
- Housing Material:** Cold-rolled 16 gauge steel. Protective input and output covers provided with all panels.
- Housing Finish:** Powder-coat putty white

POWER

Time Delays:



		Percent of Rated Current								
Trip Time (Seconds)	Delay	100%	135%	150%	200%	400%	600%	800%	1000%	1200%
	32 (short)	NO TRIP	300-7.00	200-5.00	100-2.00	030-500	008-300	006-.150	.005-.100	005-.100

- Breaker Type:** Hydraulic magnetic circuit breaker
- Actuator:** Rocker with finger guard (breaker amperage shown on faceplate)
- Trip:** Series trip with manual reset
- Panel Capacity:** 100 Amps maximum per bus (200 Amps total, dual bus configuration)
- Operating Voltage:** ±24 Vdc (-21 to -30 Vdc tolerance) or ±48 Vdc (42 to 56 Vdc tolerance)
- Power Dissipation:** 80 watts maximum
- Fail Alarm Indicators:** Red LED indicates tripped breaker. Green LED indicates power on. Alarm output contacts provided for audible, visual, and remote alarms.
- Alarm Contact Connection:** Wirewrap or screw-down barrier terminal strip
- Alarm Contact Relay:** 1 Amp maximum
- Input Power**
- Feed Connection:** Two-hole compression lug (stud-type) accepts range of wire up to 2 AWG. Product ships with two 2-hole lugs (accepting 2 AWG wire) per power bus
- Output Power**
- Feed Connection:** Screw-down barrier terminal strip accepts range of bare wire for 8-16 AWG.
- Post Size:** 8-32
- Distance Between Barrier Walls:** 0.378" (9.60 mm)
- Grounding:** Two-post grounding accepts range of wire up to 10 AWG. Grounding can be done with two #10 wires and two #10 ring terminals or use larger AWG sizes across both studs.

ENVIRONMENTAL

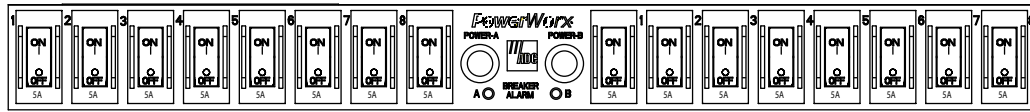
- Storage Temperature:** -40° to +85°C (40 to 185° F)
- Operating Temperature:** -40° to +65°C (40 to 149° F)
- Operating Humidity:** 0% to 95%, non-condensing
- Operating Altitude:** Up to 13,000 feet (3.96 km)

STANDARDS

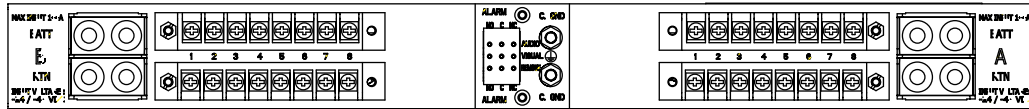
Meets UL, Telcordia (Bellcore), NEC 2002, CSA, NEBS Level 3, and CE standards

WARRANTY

5 years

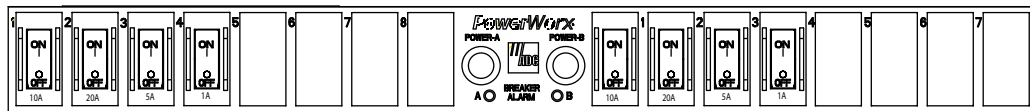


Front view

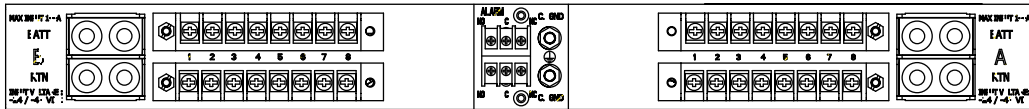


Rear view

8/8-Position Dual Power Feed, Short Delay Breakers
PWX-45NNNNNNNSWP



Front view

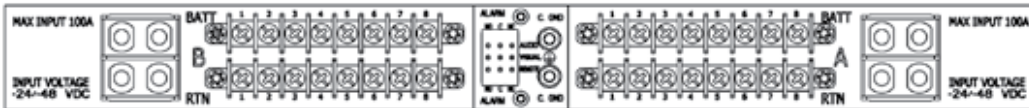


Rear view

4/4-Position Dual Power Feed, Short Delay Breakers
PWX-451VMNHXXXSSP



Front view



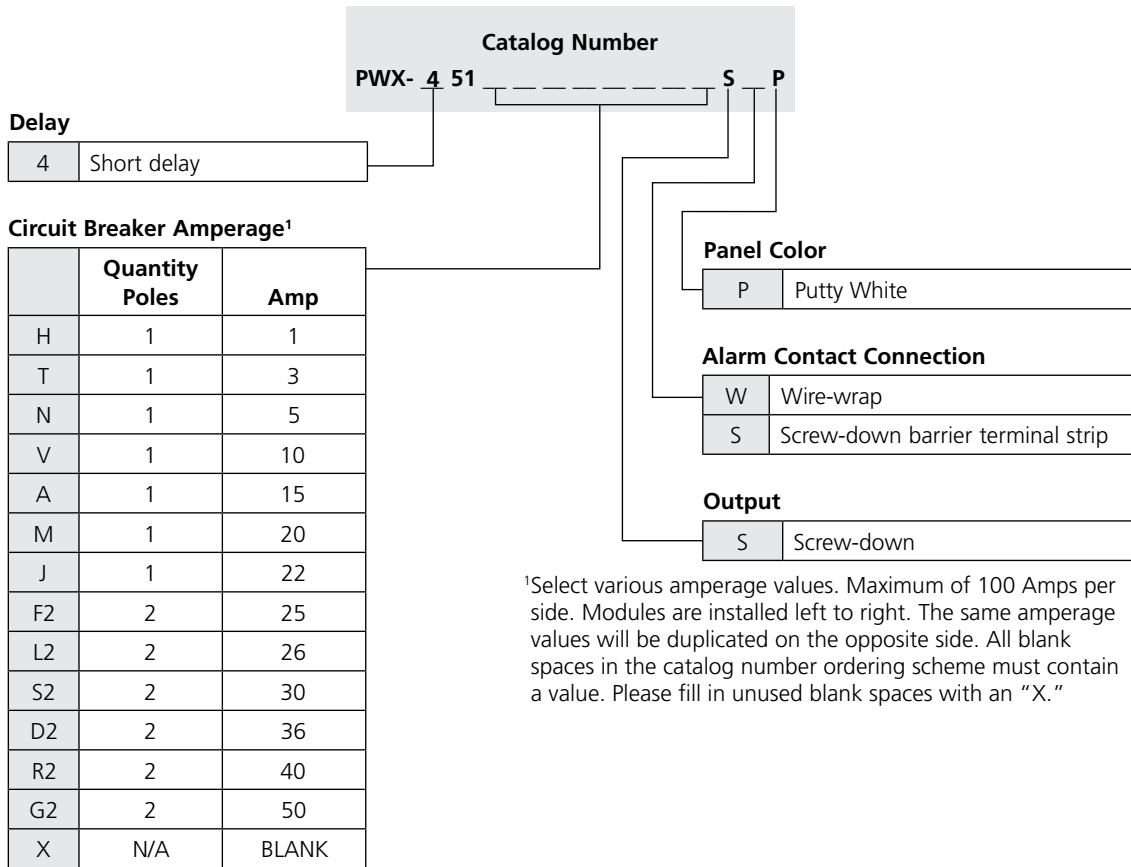
Rear view

7/7-Position Dual Power Feed, Short Delay Breakers
PWX-451NMHHHTG2SWP



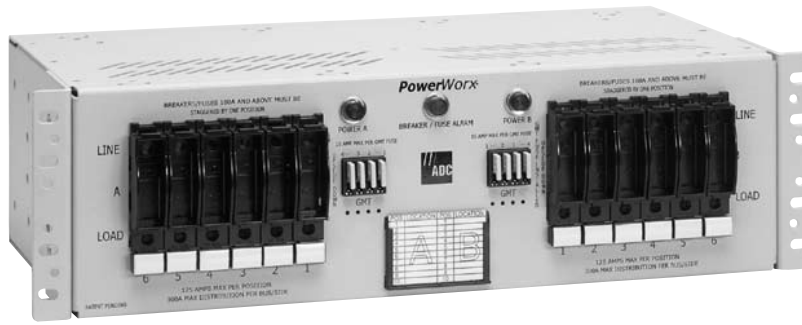
PowerWorx[®] Select Series™ Circuit Breaker

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¹Select various amperage values. Maximum of 100 Amps per side. Modules are installed left to right. The same amperage values will be duplicated on the opposite side. All blank spaces in the catalog number ordering scheme must contain a value. Please fill in unused blank spaces with an "X."

Note: Panels ship with one designation card holder and card, one voltage designation label, two 2-hole lugs per input power bus, two ring lugs (for grounding), and rack mounting brackets.



The Advantage Series platform accepts input power up to 300 Amps per bus (600 Amps total capability), up to 125 Amps per high-current output position, and up to 15 Amps per GMT fuse position (optional). A patent-pending design, the Advantage Series platform can be configured to meet unique network powering needs. Select from various input power cable routing types, fusing options and alarm connectors. Industry standard "bullet" terminal breakers or fuses can be mixed within a single panel, allowing maximum flexibility.

Compact, flexible PowerWorx configurations suit most network applications. Using the universal mounting brackets, the panel can be flush- or recess-mounted into 19-inch (483 mm) and 23-inch (584 mm) EIA and WECO racks.

All Advantage Series panels have six positions on each side. Each position can be filled with either circuit breakers, TPC Fuses or both. TPC up to 125 Amps per position. Circuit breakers up to 100 Amps per position.



Specifications

PHYSICAL

Dimensions (HxWxD): 5.25" x 17.12" x 8.89" (133 mm x 435 mm x 226 mm)
Dimensions do not include depth of power connectors, alarm lamps, or fuses

Weight: Approximately 25 lbs (without breakers or fuses)

Rack Mounting Width: Using the universal mounting brackets, the standard front/rear access fuse panel can be flush- or recess-mounted into 19-inch (483 mm) and 23-inch (584 mm) EIA and WECO racks

POWER

Breaker/Fuse Capacity

High Current Breakers/Fuses: 1 to 125 Amps

Works With: Carling Technologies, Eaton, Airpax Circuit Breakers; Bussman TPC fuse types

GMT Fuses: 0.2 to 15 Amps

Panel Capacity: 300 Amps maximum per bus (600 Amps total, dual bus configuration)

Operating Voltage: -48 Vdc (-42 to -56 Vdc tolerance)

Power Dissipation: 50 Watts maximum

Fail Alarm Indicators: Flashing red LED indicates tripped breaker or blown fuse. Green LED indicates power on. Alarm output contacts provided for audible, visual, and remote alarms.

Alarm Contact Connection: Screw-down barrier terminal strip

Alarm Contact Relay: 1 Amp maximum

Grounding: Two-post grounding accepts range of wire up to 2 AWG (Flex) or 1 AWG (Stranded)

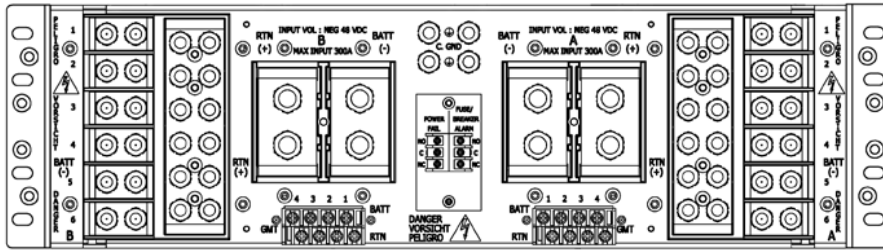
Input Feed Connection: Two-hole compression lug (stud-type) accepts range of cable up to 350 MCM (stranded)

Output Feed Connection: Two-hole compression lug (stud-type) accepts range of wire up to 2 AWG (flex) or 1 AWG (stranded)

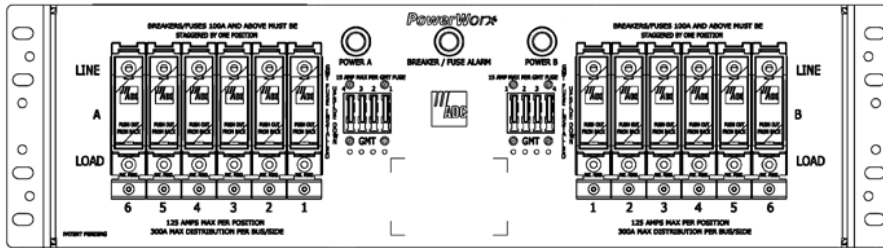
Connector Type	Bare Cable/Lug Wire Size	Stud Size	Screw Size	Center to Center	Distance Between Barriers
Input Terminals	Up to 350 MCM (Stranded)	3/8"	3/8"-16	1"	1.3"
High Current Output Terminals	Up to 1AWG (Stranded) 2 AWG (Flex)	1/4"	1/4"-20	.625" (5/8")	.72"
GMT Output Terminals	14-22 AWG	N/A	M3.5	.374"	.318"
Alarm Terminals (screw down)	16-30 AWG	N/A	3-48	.250"	.200"
Ground Terminals (two sets)	Up to 1 AWG (Stranded) 2 AWG (Flex)	1/4"	1/4"-20	.625" (5/8")	N/A

STANDARDS

Meets UL, Telcordia (Bellcore), NEC 2002, CSA, NEBS Level 3, IEC, and CE Standards

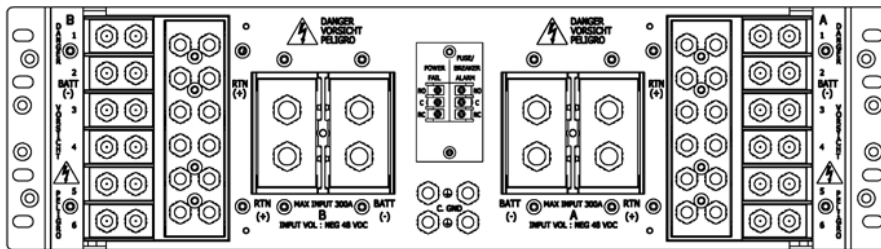


Rear view

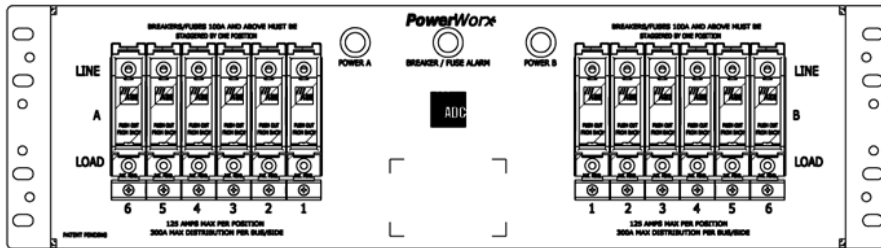


Front view

4 GMT positions per side
PWX-061RD6YSTSP



Rear view



Front view

No GMT Fuses
PWX-061RD6NXXSP-C



Ordering Information

Advantage series		
Fuse/breaker panels	Shipping	Catalog Number
Dual bus with six positions per bus Screw-down alarm terminal type Putty white Features 4GMT positions per side and screw-down GMT output connectors. Input cabling is top-down with GMT fuses. No GMT fuses for output or input.	Quick Ship	PWX-061RD6YSTSP
	Standard	PWX-061RD6NXXSP-C

Note: Depending on preference for fuses or breakers, either fingerguards or TPC fuse holders need to be ordered with each panel. Designation cards available see page 36.



An Economical Alternative

As networks and the variety of powered network devices grow, so does the need for reliable power distribution and protection in multimedia broadband networks. TE's PowerWorx has been engineered from the ground up to properly protect and distribute power to valuable, revenue-generating network equipment.

PowerWorx GMT 60e Series panels set a new standard – delivering the power and the protection that service providers need. So if your network needs power that works, use PowerWorx.

PowerWorx GMT 60e Series fuse panels deliver power to valuable, revenue-generating network equipment located in broadband multiservice networks. The GMT 60e Series accepts input power up to 60 Amps per bus. Up to 15 Amps per fuse position is standard.

PowerWorx panels are independently tested to comply with the industry's highest standards, including CE, UL, CSA, and NEC 2002. In addition, the GMT 60e Series is backed by a five-year warranty.

Flexible PowerWorx configurations suit most every network application. Panels can be mounted into 19-inch (483 mm), 23-inch (584 mm), Electronic Industries Association (EIA) or Western Electric Company (WECCO), and 600 mm racks. User-friendly "upside down" fuse holders and high-brilliance LEDs allow technicians to quickly identify input power failure and blown fuse alarms.



PowerWorx[®]

GMT 60e Series

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Specifications

STANDARDS

Meets UL, NEC 2002, CSA, and CE standards

PHYSICAL

Dimensions (HxWxD):

Standard Access: 1.75" x 17.12" x 3.0" (44 mm x 435 mm x 76.2 mm)
Dimensions do not include depth of power connectors, alarm lamps or fuses.

Weight:

Approximately 4 lbs (1.8 kg)

Rack Mounting Width:

19" (483 mm) WECCO (2")/EIA (1.75") rack unit spacing
Flush mounting 23" (584 mm) and 600 mm rack extenders also available

Rack Unit Spacing:

WECCO (2")/EIA (1.75")

Housing Material:

Cold-rolled 16 gauge steel

Housing Finish:

Putty white powder-coat

POWER

Fuse Capacity*:

0.2 to 15 Amps

Panel Capacity:

60 Amps (maximum) per bus

Operating Voltage:

-48 Vdc (-42 to -56 Vdc tolerance)

Power Dissipation:

12W maximum per bus

Fail Alarm Indicators:

Red LED indicates blown fuse. Green LED indicates power on. Alarm output contacts provided for audible, visual and remote alarms (Optional).

Alarm Contact Connection:

Set-screw barrel terminal strip accepts range of wire up to 12 AWG (3.3 mm)

Alarm Contact Relay:

1 Amp maximum

Input Feed Connection:

Set-screw barrel connector accepts range of wire up to 6 AWG (13.3 mm).
Stud-type (accepting two-hole compression lug) accepts range of wire up to 2 AWG (33.6 mm). Distance between barrier walls (stud-type) .62" (15.8 mm).
Stud size .25" (6.35 mm) center to center spacing of studs .625" (15.88 mm).

Output Feed Connection:

Set-screw barrel terminal strip accepts range of wire up to 12 AWG (3.3 mm)

Grounding:

Single-post grounding accepts range of wire up to 10 AWG (5.2 mm)

ENVIRONMENTAL

Storage Temperature:

-45° to 85°C (-49 to 185° F)

Operating Temperature:

-5° to 55°C (23 to 131° F)

Operating Humidity:

0% to 95%, non-condensing

Operating Altitude:

Up to 13,000 feet (3.96 km)

WARRANTY

Five years

Panels ship with one fused-equipment designation card holder and card and one ring lug (for grounding).

* Important Note: The fuse manufacturer recommends that GMT fuses rated 8 to 15 Amps be continuously operated at no more than 80% of their nominal current rating.



PowerWorx[®]

GMT 60e Series

10/09 • 105203AE PowerWorx[®] Power Distribution Products

Ordering Information

GMT 60e Series		
Standard front and rear access fuse panels	Shipping	Catalog Number
Dual Power feed, 10/10 position fuse configuration Set-screw barrel input connector No alarm output Putty white	Standard	EWX-001RGSBD10XEP
Dual Power feed, 10/10 position fuse configuration Set-screw barrel input connector Wire-wrap alarm contact connection Putty white	Standard	EWX-001RGSBD10BEP
Dual Power feed, 10/10 position fuse configuration Stud-type powering input Wire-wrap alarm contact connection Putty white	Standard	EWX-001RGCBD10BEP



Primarily used to power LEDs in DSX modules, the PDP Series is also used to power auxiliary equipment such as intraoffice and bridging repeaters as well as communication panels. Features two-hole compression lug-style power input terminals, field-replaceable, high brilliance red LEDs to ensure panel uptime and enhanced fuse visibility with "upside down" installed GMT fuse holders. Panel is compliant with NEBS Level 3, UL, NEC 1999 and CSA.

Electrical Specifications

Input power:	-42 to -56 Vdc (no strapping required)
Bus amperage:	60 Amps maximum per bus
Remote alarm contact (resistive load):	125V maximum
Local alarm indicator:	LED
GMT Fuses:	3 Amps maximum per fuse

20-Position Fuse Panel

Ordering Information

DSX PDP series	Shipping	Catalog Number
Standard front and rear access fuse panels		
Single power feed 20 position fuse configuration 3 Amp max per fuse Wire-wrap alarm contact connection Putty white Black	Quick Ship Standard	PDP-FPCS201PWWXX PDP-FPCS201BWWXX

Cable Management Bars For Standard (Front and Rear Access) Fuse Panels



Ordering Information

Cable management bar	Catalog Number
Putty white - 19"	CMB-P-19
Putty white - 23"	CMB-P-23

Compression Lugs For Two-Hole Stud-type Input Power Connections

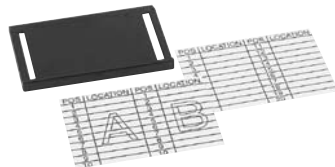


Compression lugs provide a robust and reliable electro-mechanical connection.

Ordering Information

Compression lug; ships two per pack	Catalog Number
2 AWG	CL-02M
4 AWG	CL-04M
6 AWG	CL-06M
14 AWG	CL-14M

Designation Card Holder and Cards



Designation cards held in pressure-sensitive card holder enable easy identification and location of fused equipment.

Ordering Information

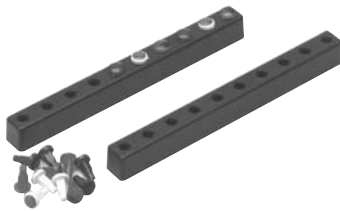
Designation card holder kit Includes:	Catalog Number
1 plastic designation card holder, 2 designation cards and window	DCK-02

GMT Fuses/Fuse Designation Pins – Alarm Indicator



Ordering Information			
GMT fuses/fuse designation pins - alarm indicator			
Fuse Size	Color of Indicator/ Designation Pin	Fuse Catalog Number	Pin Catalog Number
2/10 Amps	Black-Red	F-2/10	P-2/10
1/4 Amps	Violet	F-1/4	P-1/4
3/8 Amps	White-Green	F-3/8	P-3/8
1/2 Amps	Red	F-1/2	P-1/2
3/4 Amps	Brown	F-3/4	P-3/4
1 Amps	Gray	F-1	P-1
1-1/3 Amps	White	F-1 1/3	P-1 1/3
1-1/2 Amps	White-Yellow	F-1 1/2	P-1 1/2
2 Amps	Orange	F-2	P-2
2-1/2 Amps	Orange-White	F-2 1/2	P-2 1/2
3 Amps	Blue	F-3	P-3
3-1/2 Amps	White-Blue	F-3 1/2	P-3 1/2
4 Amps	White-Brown	F-4	P-4
5 Amps	Green	F-5	P-5
7-1/2 Amps	Black-White	F-7 1/2	P-7 1/2
10 Amps	Red-White	F-10	P-10
12 Amps	Yellow-Green	F-12	P-12
15 Amps	Red-Blue	F-15	P-15
Dummy GMT		GMT Dummy	
20 Amps		F-20	

GMT Designation Pin Holder



GMT designation pin holder securely holds designation pins for improved fuse value identification.

Ordering Information	
GMT designation pin holder	Catalog Number
Holds up to ten fuse designation pins, adhesive back allows for quick and easy mounting (ships two per pack)	DPK-01

GMT Fuse Puller



The compact puller grips firmly to remove GMT fuses.

Ordering Information	
GMT fuse puller	Catalog Number
Fuse puller; ships two per pack	FP-G

KLM Fuses – Non-Indicator¹



The compact puller grips firmly to remove GMT fuses.

Ordering Information	
KLM fuses - non-indicator	Catalog Number
5 Amps	KLM-05
10 Amps	KLM-10
15 Amps	KLM-15
20 Amps	KLM-20
25 Amps	KLM-25
30 Amps	KLM-30
KLM Dummy	KLM Dummy

¹All KLM fuse modules house a fuse alarm indicating red LED.

KLM Fuse Panel Cap



Ordering Information	
KLM fuse panel cap	Catalog Number
Cap for KLM fuse panel	KLM-CAP

Rear Covers



Ordering Information	
Rear covers	Catalog Number
Input power terminal block cover	PWX-RC

Ring Lug Kit



Ordering Information	
Ring lug kit	Catalog Number
100 Piece, 16-22 AWG	RLK-001
20 Piece, 8 AWG	RLK-002
20 Piece, 10 AWG	RLK-003

TPA Fuses – Alarm Indicator



Ordering Information	
TPA fuses - alarm indicator	Catalog Number
3 Amps	TPA-03
5 Amps	TPA-05
10 Amps	TPA-10
15 Amps	TPA-15
20 Amps	TPA-20
25 Amps	TPA-25
30 Amps	TPA-30
40 Amps	TPA-40
50 Amps	TPA-50



Carling Breakers and TPC Fuses/Fuse Holder

Ordering Information	
Carling breakers	Catalog Number
1 AMP	CA1-X0-09-571-A21-MG
10 AMP	CA1-X0-09-572-A21-MG
20 AMP	CA1-X0-09-573-A21-MG
30 AMP	CA1-X0-09-574-A21-MG
40 AMP	CA1-X0-09-575-A21-MG
50 AMP	CA1-X0-09-576-A21-MG
60 AMP	CA1-X0-09-577-A21-MG
75 AMP	CA1-X0-09-578-A21-MG
90 AMP	CA1-X0-09-634-A21-MG
100 AMP	CA1-X0-09-635-A21-MG

Ordering Information	
TPC fuses/fuse holder	Catalog Number
15 AMP	TPC-15
20 AMP	TPC-20
25 AMP	TPC-25
30 AMP	TPC-30
40 AMP	TPC-40
50 AMP	TPC-50
60 AMP	TPC-60
75 AMP	TPC-75
90 AMP	TPC-90
100 AMP	TPC-100
125 AMP	TPC-125
TPC Fuse Holder	TPCDS-BBE-2

Compression Lugs For Two-Hole Stud-type Input Power Connections

Compression lugs provide a robust and reliable electro-mechanical connection.

Ordering Information

Compression lugs; ships two per pack	Catalog Number
2 AWG	CL-02M
1 AWG	CL-01M
1/0 AWG	CL-01M0
2/0 AWG	CL-02M0
3/0 AWG	CL-03M0
4/0 AWG	CL-04M0
250 KCMil	CL-250M
300 KCMil	CL-300M
350 KCMi	CL-350M



Compression Lug

Miscellaneous Accessories

Ordering Information

Miscellaneous Accessories	Catalog Number
Circuit breaker fingerguards; ships 12 per pack	FG-01A
Circuit breaker/TPC fuse designation cards; ships 12 per pack	DCK-01A
*TPC fuse holder adapter; ships 12 per pack	FHA-01A
Input power terminal block cover	PWX-AD-RC-IN
Output power terminal block cover	PWX-AD-RC-OUT

*Required for mounting TPC fuse holder in Advantage Platform



Designation Card
DCK-01A



Fingerguard FG-01A
(Front View)



Fingerguard FG-01A
(Side View)



TPC Fuse Holder Adapter
FHA-01A



Output Power Terminal Block Cover
PWX-AD-RC-OUT



Input Power Terminal Block Cover
PWX-AD-RC-IN

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