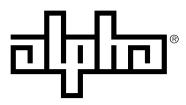
PowerWorx®

SuperPower[™] GMT Series Select Series[™] Advantage Series[™]

ORDERING GUIDE





an EnerSys company



PowerWorx® Ordering Guide

As networks and the variety of powered network devices grow, so does the need for reliable power distribution and protection in multimedia broadband networks. The 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.



Ordering Equipment

s.no	PART NUMBER	CATALOG NUMBER	PART DESCRIPTION	
1	300001772984	PWX-041RCA4G4YSPWP	19", 1RU, -24/48Vdc, 100A, Dual 4x TPA, 4x GMT Fuse Panel	
2	300001779526	PWX-031RXCSD10PWDP	19", 1RU, ±24/48Vdc, 100A, Dual 10x GMT Fuse Panel	
3	1314124	PWX-061RD6YSTSP	19", 3RU, -48Vdc, 300A, Dual 6x TPC, 4x GMT Fuse panel	
4	300001779528	PWX-031FXCSD10PWDP	23", 2RU, ±24/48Vdc, 100A, Front Access, Dual 10x GMT Fuse Panel	
5	1201823	PWX-041RCK4G4YSPSP	19", 1RU, -24/48Vdc, 100A, Dual 4x KLM, 4x GMT Fuse Panel	
6	1283921	PWX-041RCA4G1YSPSP	19", 1RU, -24/48Vdc, 100A, Dual 4x TPA, 10x GMT Fuse Panel	
7	300001779525	PWX-031RGCSD20PWDP	19", 1RU, ±24/48Vdc, 100A, Dual 20x GMT Fuse Panel	



SuperPower[™] GMT Series



PowerWorx SuperPower GMT Series panels accept high input power – up to 100 Amps per bus, and similarly, 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.

Specifications

PHYSICAL		
Dimensions (HxWxD) Standard access 10/10 GMT fuse panel: 1.75" x 17.12" x 8" (44 x 435 x 203 mm) Standard access 20/20 GMT fuse panel: 1.75"x 17.12", 4" (44 x 435 x 203 mm) Total front access: 10/10 GMT fuse panel 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 10lbs (4.5kg)	
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 powder-coat	
POWER		
Fuse Capacity ¹	0.2 to 20 Amps	
Panel Capacity 100 Amps maximum per bus (200 Amps total)		
Operating Voltage ±24Vdc (21 to 30Vdc tolerance) or ±48Vdc (42 to 56Vdc 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 2AWG. Panel ships with two 2-hole lugs (accepting 2AWG stranded wire) per power bus.		
Output Feed Connection	Screw-down barrier terminal strip accepts range of wire up to 12AWG.	
Grounding Two-post grounding accepts range of wire up to 10AWG for single connection; two-hole compression lug (stud-accepts wire up to 2AWG.		

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SuperPower™ GMT Series

FUSE CONFIGURATION	OUTPUT CONNECTOR TYPE	MAX. AMPERAGE PER FUSE POSITION	RANGE OF BARE WIRE ACCEPTED	POST/STUDSIZE	DISTANCE BETWEEN BARRIERS WALLS
D10	Screw-Down	20 Amps	12-22 AWG	#6-32	0.325" (8.255mm)
D20	Screw-Down	10-15 Amps	16-30 AWG	#3-48	0.20" (5.08mm)

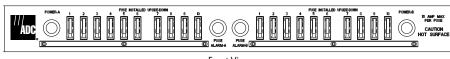
ENVIRONMENTAL			
Storage Temperature	-45° to 85°C (-49 to 185°F)		
Operating Temperature	-40° to 65°C (-40 to 149ºF)		
Operating Humidity	0% to 95%, non-condensing		
Operating Altitude	Up to 13,000 feet (3.96km)		

STANDARDS

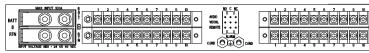
Meets UL, Telcordia (Bellcore), NEC2002, CSA, 1 (NEBS Level 3, IEC, and CE)

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

Dual Power Feed 10/10 - Position PWX-031RXCSD10PWDP P/N: 300001779526

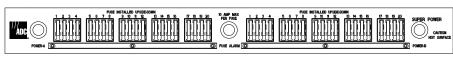


Front View



Rear View

Dual Power Feed 20/20 - Position PWX-031RDCSD20PWDP P/N: 300001779525

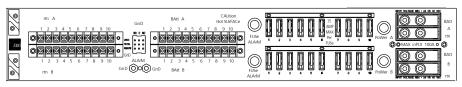


Front View



Rear View

Total-Front-Access Dual Power Feed 10/10 - Position PWX-031FXCSD10PWDP P/N: 300001779528



Front View

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SuperPower™ GMT Series

Ordering Information

STANDARD FRONT AND REAR ACCESS FUSE PANELS				
Dual power feed, 10/10 position fuse configuration Wire-wrap alarm contact connection Putty white 20 Amp max per fuse	Part Number: 300001779526 Catalog Number: PWX-031 RXCSD 10PWDP			
Dual power feed, 20/20 position fuse configuration Wire-wrap alarm contact connection Putty white 15 Amp max per fuse	Part Number: 300001779525 Catalog Number: PWX-031 RDCSD20PWDP			
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	Part Number: 300001779528 Catalog Number: PWX-031 FXCSD 10PWDP			

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 2AWG stranded wire), two ring lugs (forgrounding), and four sheets of perforated fuse designation cards and six plastic covers.



Select Series



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. It's compact foot print and versatility are well suited for collocation applications where high-amperage equipment such as routers, DSLAMs, and Sonet gear are installed with lower-amperage equipment. Its modular design enables service providers to combine TPA, KTK/KLM, 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 (H x W x D)	1.75" x 17.12" x 10" (44 x 435 x 254mm). Dimensions do not include depth of power connectors, alarm lamps or fuses.			
Weight	Approximately 12.5lbs (5.7kg)			
Rack Mounting Width The standard front/rear access fuse panel can be flush (or recess) mounted into 19-inch (483mm) or 23-inch (584mm) EIA and WECO 2 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 G4 configurations accept fuses rated up to 15 Amps. G1 configurations accept fuses rated up to 10 Amps.			
Panel Capacity	100 Amps maximum per bus (200 Amps total, dual bus configuration)			
Operating Voltage	-24Vdc (-21 to -30Vdc tolerance) or -48Vdc (-42 to -56Vdc 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	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 2AWG wire) per power bus, plus one extra 2-hole lug.				
Output Feed Connection	Screw-down barrier terminals trip accepts range of bare wire up to 8AWG (TPA), 10AWG (KLM), or 12-16AWG (GMT).			
Grounding Two-post grounding accepts range of wire up to #10AWG for single connection; two-hole compression lug accepts wire up to #2AWG.				

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Select Series

FUSE TYPE	BARE WIRE SIZE	RING LUG SIZE	POST SIZE	DISTANCE BETWEEN BARRIER WALLS
TPA	8-16AWG	8AWG	8-32	0.378" (10mm)
KLM/KTK1	8-16AWG	10AWG	8-32	0.320" (8mm)
GMT, 4	12-22AWG	12AWG	6-32	0.325" (8mm)
GMT, 5 and 10 position	14-22AWG	14AWG	6-32	0.260" (7mm)
GMT, 10 position	16-30AWG	16AWG	3-482	0.200" (5mm)

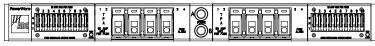
ENVIRONMENTAL		
Storage Temperature	-45° to 85°C (-49 to 185°F)	
Operating Temperature	-5° to 55°C (23 to 131°F)	
Operating Humidity	0% to 95%, non-condensing	
Operating Altitude	Up to 13,000 feet (3.96 km)	

STANDARDS

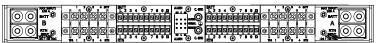
Meets UL, Telcordia (Bellcore), NEC 2002, CSA, NEBS Level 3, IEC, and CE standards

KTK fuses are not currently rated for DC voltages by Under writers Laboratories (UL). KTK fuses willI fit in the KLM fuse holder.

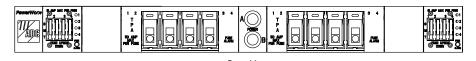
4TPA/10 GMTPWX-041 RCA4G 1 YSPS
P/N: 1283921



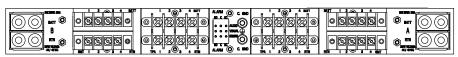
Front View



Rear View



4TPA/4 GMTPWX-041RCA4G4YSPWP
P/N: 300001772984

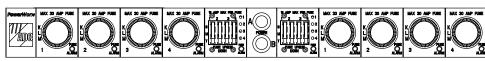


Rear View

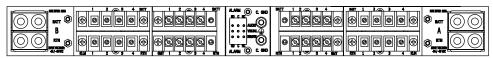


Select Series

4KLM/4 GMT PWX-041RCK4G4YSPS P/N: 1201823



Front View



Rear View

Ordering Information

SELECT SERIES				
Standard front access fuse panel				
Dual power feed				
Putty white				
See fuse configuration options below	Catalog Number			
4KLM/4 GMT	PWX-041 RCK4G4YSPSP, P/N: 1201823			
4TPA/4 GMT	PWX-041RCA4G4YSPSP, P/N: 300001772984			
4TPA/10 GMT	PWX-041 RCA4G 1 YSPSP, P/N: 1283921			

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.



Advantage Series



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. The Advantage Series platform can be configured to meet unique network powering needs. Compact, flexible PowerWorx configurations suit most network applications. Using the universal mounting brackets, the panel can be flush-or recess-mounted into 19-inch (483mm) and 23-inch (584mm) EIA and WECO racks. All Advantage Series panels have six positions on each side. Each position can be filled with TPC Fuses or circuit breakers. TPC up to 125 Amps per position. Circuit breakers up to 100 Amps per position.

Specifications

PHYSICAL		
Dimensions (HxWxD)	ons (HxWxD) 5.25" x 17.12" x 8.89" (133mm x 435mm x 226mm) Dimensions do not include depth of power connecte lamps, or fuses	
Weight	Approximately 25lbs (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 (483mm) and 23-inch (584mm) EIA and WECO racks	
POWER		
Breaker/Fuse Capacity High Current Breakers/Fuses	1 to 125 Amps	
Fuses	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	-48Vdc (-42 to -56Vdc 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)	

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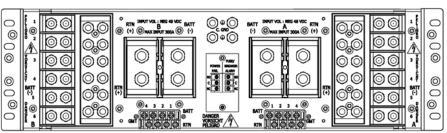


Advantage Series

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 1 AWG (Stranded) 2 AWG (Flex)	1/4"	1/4"-20	.625" (5%")	.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

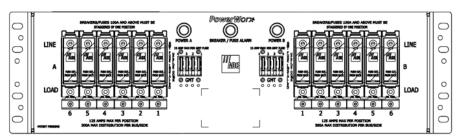
STANDARDS

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



Rear View

6 TPC /4 GMT PWX-061RD6YSTSP P/N: 1314124



Front View

Ordering Information

ADVANTAGE SERIES Fuse/breaker panels Dual bus with six positions per bus Screw - down alarm terminal type Putty white Features 4 GMT positions per side and screw-down GMT output connectors. Input cabling is top-down with GMT fuses. Catalog Number PWX-061 RD6YSTSP, P/N: 1314124

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

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Accessories

GMT Fuses/Fuse Designation Pins-Alarm indicator



PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION
4600093	180mA, 60Vdc, GMT Fuse	460-085-10	4A, 60Vdc, GMT Fuse
4600094	4 .25A, 60Vdc, GMT Fuse 460-084-10 5A, 60		5A, 60Vdc, GMT Fuse
460-004-10	.5A, 60Vdc, GMT Fuse	460-105-10	7.5A, 60Vdc, GMT Fuse
4600095	.75A, 60Vdc, GMT Fuse	460-069-10	10A, 60Vdc, GMT Fuse
460-006-10	1A, 60Vdc, GMT Fuse	4600096	12A, 60Vdc, GMT Fuse
460-081-10	1.3A, 60Vdc, GMT Fuse	460-150-10	15A, 60Vdc, GMT Fuse
460-082-10	1.5A, 60Vdc, GMT Fuse	4600101	20A, 60Vdc, GMT Fuse
460-083-10	2A, 60Vdc, GMT Fuse	4600071	Gray Dummy GMT Fuse
460-013-10	3A, 60Vdc, GMT Fuse		

GMT Fuse Puller

The compact puller grips firmly to remove $\ensuremath{\mathsf{GMT}}$ fuses



ORDERING INFORMATION		
GMT FUSE PULLER	PART NUMBER	
Fuse puller; ships two per pack	1085617	

KLM Fuses-non-indicator¹



ORDERING INFORMATION	
KLM FUSES-NON-INDICATOR	PART NUMBER
5 Amps	1150164
15 Amps	1150224
20 Amps	1150230
25 Amps	1150235
30 Amps	1150239

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



Accessories

KLM Fuse Panel Cap



ORDERING INFORMATION		
KLM FUSE PANEL CAP	PART NUMBER	
Cap for KLM fuse panel	1315232	

TPA Fuses-Alarm indicator



ORDERING INFORMATION	
TPA FUSES-ALARM INDICATOR	PART NUMBER
3 Amps	1108199
10 Amps	1108203
15 Amps	1108204
20 Amps	1108206-ZZ
25 Amps	1108207
30 Amps	1108208
40 Amps	1108209
50 Amps	1108211

Carling Breakers and TPC Fuses/Fuse Holder (used with Advantage Series)

ORDERING INFORMATION		
CARLING BREAKERS	PART NUMBER	
10 Amp	1460695	
20 Amp	1460694	
30 Amp	1460691	
40 Amp	1460690	
50 Amp	1460685	
60 Amp	1460684	
75 Amp	1460682	
90 Amp	1460683	
100 Amp	1460681	

ORDERING INFORMATION		
TPC FUSES/FUSE HOLDER	PART NUMBER	
15 Amp	1263963	
20 Amp	1263964	
25 Amp	1263966	
30 Amp	1263968	
40 Amp	1263969	
60 Amp	1263971	
125 Amp	1263975	
TPC Fuse Holder	1263918	

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Accessories

Miscellaneous Accessories

ORDERING INFORMATION		
MISCELLANEOUS ACCESSORIES	PART NUMBER	
Circuit breaker finger guards; ships 12 per pack	1284189	
TPC fuse holder adapter; ships 12 per pack*	1284201	
Input power terminal block cover (For Advantage Series)	1312715	
Output power terminal block cover (For Advantage Series)	1312716	

 $^{{}^{\}star}$ Required for mounting TPC fuse holder in Advantage Platform



Finger Guard (Front view)



Finger Guard (Side view)



TPC Fuse Holder Adapter FHA-01 A



Output Power Terminal Block Cover



Input Power Terminal Block Cover