

3^G ENCLOSURES

ELECTRONIC PACKAGING



ISO9001 Certified
Designed and manufactured in the USA.



3G Overview

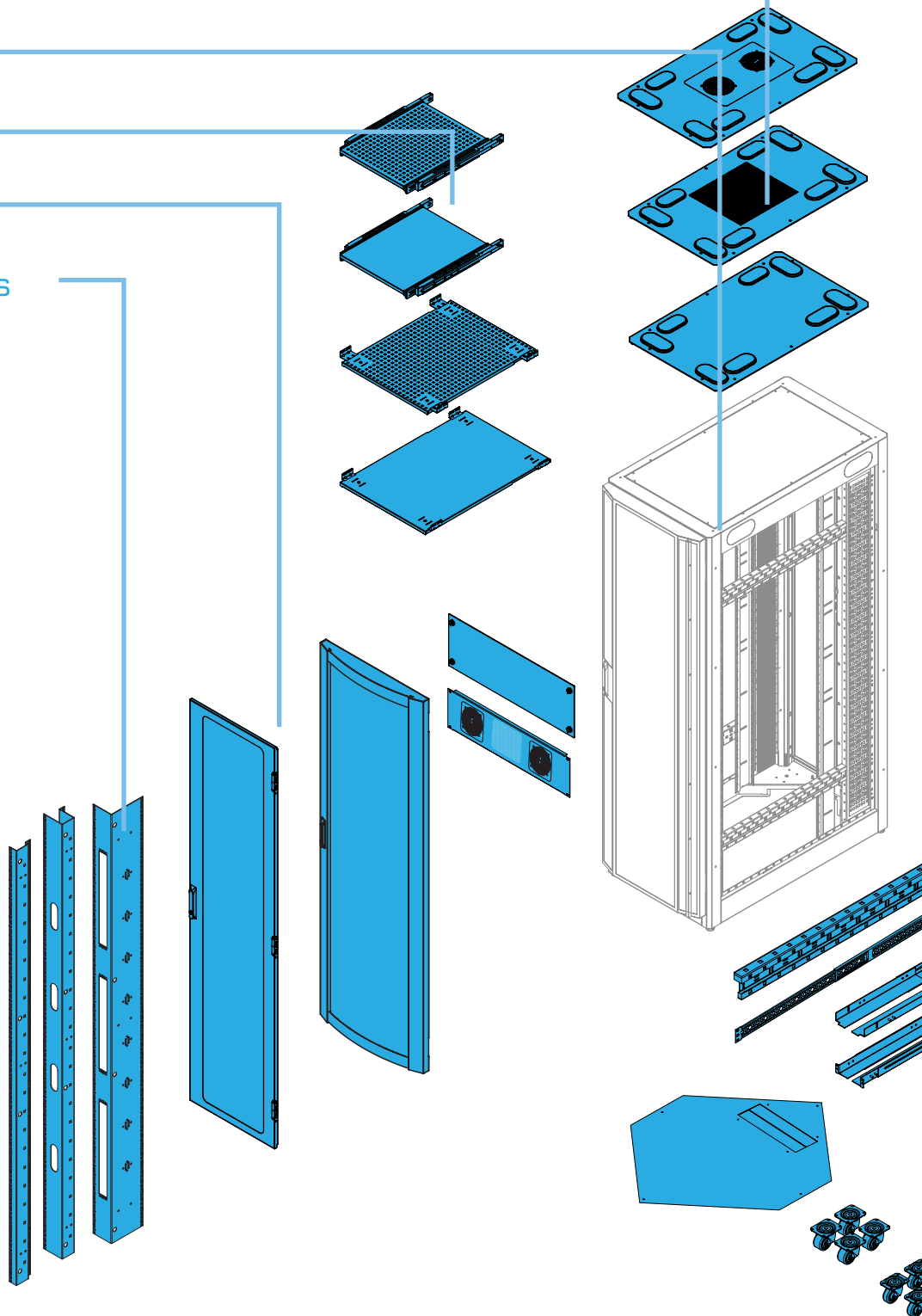
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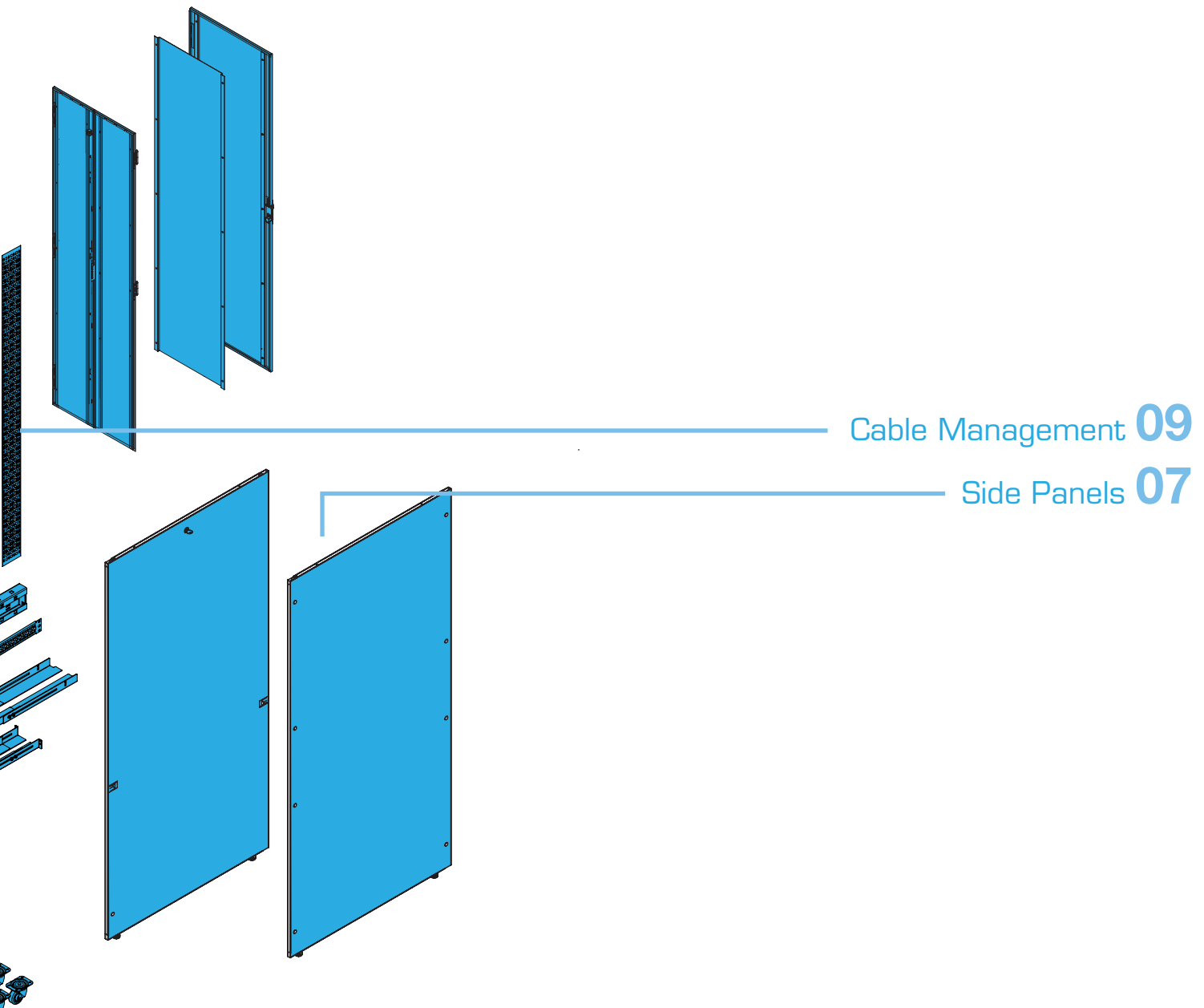




3G Overview

About 3G

AMCO Enclosures introduces its third generation of enclosures for data applications. Our 3G enclosures address the most important requirements in IT environments. The internal enclosure environment must be self-sustaining when it comes to power, thermal loads and cable management. The adaptive enclosures assure that your system has the flexibility to change with hardware technology that drives data center infrastructure design.



Cable Management **09**

Side Panels **07**



3G Frames



Frames

3G racks are the third generation of AMCO's enclosures for IT environments, and are EIA 310D compliant. The frame incorporates an inner perimeter seal that optimizes airflow to servers rather than around them. The 3G can be ordered with or without power panels or full-length side struts.

All 3G frames have a ten-year warranty.

Certified Load Ratings

Static: 3,200 lbs.

Dynamic: 2,100 lbs.

Frames Include

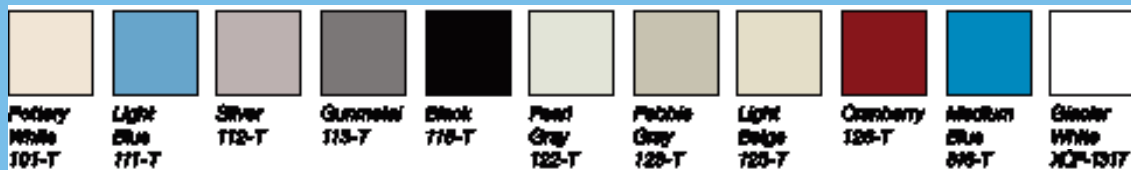
- Two pairs of adjustable mounting channels
- Individually numbers RUs for easy equipment mounting
- Six grounding studs incorporated into rack
- Four 1,000 lb. leg levelers for ground support

24" Width Frames

RU Height	Overall Height	39" Depth	42" Depth	45" Depth
47	87.31"	FR3G47U24-39	FR3G47U24-42	FR3G47U24-45
44	82.06"	FR3G44U24-39	FR3G44U24-42	FR3G44U24-45
42	78.56"	FR3G42U24-39	FR3G42U24-42	FR3G42U24-45

Note: For 29" width, change 24 to 29 in part number.
(i.e. FR3G47U24-39 becomes FR3G47U29-39)

Frame Color Options



Note: AMCO Enclosures offers additional color choices (up to 2 per console) for no extra charge. Custom colors are available and quoted upon request.



Mounting Channels



MX



MXW

Mounting Channels

Mounting channels are adjustable, feature a universal (M6) hole and have individually numbered RUs for easy equipment mounting. They are available in the same rack heights as the 3G racks. Mounting channels feature a durable black, powder coat finish.

MX Mounting Channels

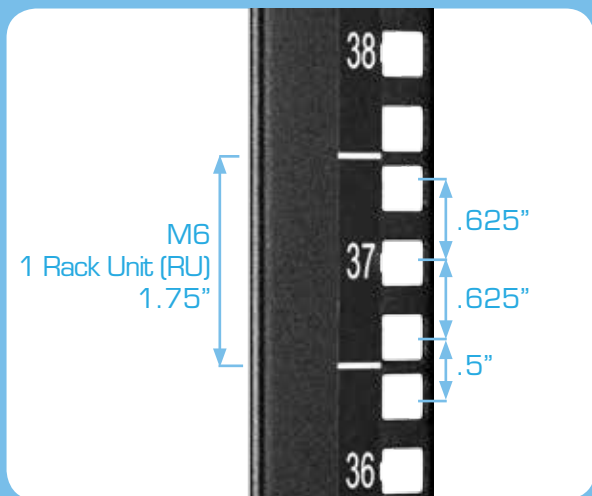
- For standard 19" mounting on 24" overall rack widths (24" width frames require two pairs of MX mounting channels per frame)

MXW Mounting Channels

- Provides 19" front mounting space in a 29" overall rack width
- Cable egress included with edge guards and dust covers

RU Height	MX	MXW
47	MX3G47RU	MXW3G47RU
44	MX3G44RU	MXW3G44RU
42	MX3G42RU	MXW3G42RU

M6 (Universal) Holes



All of AMCO Enclosures' mounting channels meet EIA standards.



Top Panels



Solid



Vented



BTA4 Fan

Top Panels

3G top panels are available in solid, vented and BTA4 (200CFM) models. All top panels feature cable egress ports with edge guards and dust covers.

Solid

- One-piece, solid-plate construction seats flat within the top of the rack

Vented

- One-piece construction featuring vented section of .187" x .937" slots

BTA4 Fan

- Top panel includes two each BTA4 fans with 100 CFM per fan, 6' power cord and external finger guards

24" Width Top Panels

Frame Depth	Solid	Vented	BTA4 Fan
45"	TPS3G24-45	TPV3G24-45	TPF3G24-45
42"	TPS3G24-42	TPV3G24-42	TPF3G24-42
39"	TPS3G24-39	TPV3G24-39	TPF3G24-39

Cable Egress Ports



Cable Egress Ports

Cable egress ports address demands of wire and cable deployment above the server rack.



Side Panels



Side Panel with Lock and Trough Side Panel

Side Panels

3G side panels mount flush to the sides of a rack and are available in the same heights and depths as the corresponding rack sizes. All side panels feature two finger latches that make removal and mounting simple. They can also be used between racks as a thermal barrier while still having the capability to be joined together with the side panels mounted in place.

Trough side panels are used externally to close off sides of racks that have vertical cable trough accessories (vertical cable troughs, trough spacers or cable wiring spacer kits).

Side Panel with Lock

RU Height	39" Depth	42" Depth	45" Depth
47	SP3G47-39-K	SP3G47-42-K	SP3G47-45-K
44	SP3G44-39-K	SP3G44-42-K	SP3G44-45-K
42	SP3G42-39-K	SP3G42-42-K	SP3G42-45-K

Trough Side Panel

RU Height	39" Depth	42" Depth	45" Depth
47	TSP3G47U-39	TSP3G47U-42	TSP3G47U-45
44	TSP3G44U-39	TSP3G44U-42	TSP3G44U-45
42	TSP3G42U-39	TSP3G42U-42	TSP3G42U-45

Side Panel Features



Keyed Locks

Side panels come with locks which keep the side panel secure.



Side Panel Latch

Side panels include a latch system for easy installation and removal.



Doors



Curved-Face Beveled-Face Vented-Flush French-Flush

Face Doors

Curved and beveled doors are face mounted, reversible and feature easy on/off spring pin hinges.

Note: Face mount doors add 3" to the depth of the console.

Flush Doors

Vented doors are flush and available in full-width or french (split). French screened doors have a smaller swing radius than flush screened doors for applications where the aisle size is reduced.

Door Features

- Concealed hinges offer easy on/off release
- Doors can be mounted as either left-hand or right-hand
- Vented doors feature a 77% open airflow pattern
- Swing-handle with keyed locks
- Combination swing handle locks optional
- Locks can be ordered keyed alike or separately (keyed separately option quoted upon request)

Door Features



Swing handle with lock
Secures valuable equipment



Combination handle (H907)
Optional handle with keyed lock



Vented pattern
77% open pattern

Face Doors

RU Height	Curved Screen	Beveled
47	CVD3G47U24	BVD3G47U24
44	CVD3G44U24	BVD3G44U24
42	CVD3G42U24	BVD3G42U24

Flush Doors

RU Height	Flush Vented	Flush French
47	FSD3G47U24	FFSD3G47U24
44	FSD3G44U24	FFSD3G44U24
42	FSD3G42U24	FFSD3G42U24

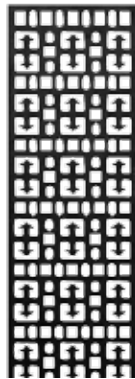
Note: Flush and face doors are available as left-hand or right-hand. Specify "-L" or "-R" at the end of the part number. Doors can accept fan panels for thermal load balancing.



Cable Management



Power/Cable Panel
PCP47U
PCP45U
PCP42U



Cable Lacing Strip
CBLS3G47U
CBLS3G45U
CBLS3G42U



Adjustable Cable Lacing Strip
1RU
UA-LBA-1421
(14"-21" width)
UA-LBA-2537
(25"-37" width)

2RU
UA-LBA-1421-2U
(14"-21" width)
UA-LBA-2537-2U
(25"-37" width)



Cable Ring Kit
HK-CR1

Vertical Cable Management

AMCO power/cable panels are used for mounting of vertical power strips or cable management at the rear of the 3G rack. These panels are 6" and feature a series of key-hole, M6 square, and .25" round holes punched into a pattern for tool-less power strip mounting or cable management.

Cable lacing strips are available in the same RU heights as corresponding 3G racks and have a 5" width. The punch pattern in the panel accepts a variety of cable tie-down options, including C-rings and velcro straps.

AMCO adjustable lacing strips are available in 1RU and 2RU heights and widths of either 14"- 21" or 25"- 37". These lacing strips mount in the panel-opening space to tie down cabling. Both the 5" lacing strips and the adjustable lacing strips feature a multi-punched hole pattern for M6 hardware mounting or cable ties.

Cable Ring Kit

Cable rings easily mount to M6 holes in power/cable panels or cable lacing strips and provide an immediate tie-down point for cabling.

Sold in packs of five.



Cable Management



**Vertical Cable Trough
6" Wide**
CTE3G47-6
CTE3G45-6
CTE3G42-6



Internal Cable Trough
24" | IHCT3G24
29" | IHCT3G29

Cable Troughs

The 3G rack features a 6" wide vertical cable manager that is 10" deep and mounts along the outside of the data cabinet. It is available in all corresponding 3G rack heights. This trough features a 1RU steel finger bracket kit that mounts vertically to the side of the rack and routes large bundles of cabling within the rack.

Our internal cable trough is placed inside the rack to provide a raceway for cable bundles and drops.



**Trough Spacer
6" Panel**
TS3G47U-6
TS3G45U-6
TS3G42U-6



Spacer Kit
CWSK3G47U-6
CWSK3G45U-6
CWSK3G42U-6

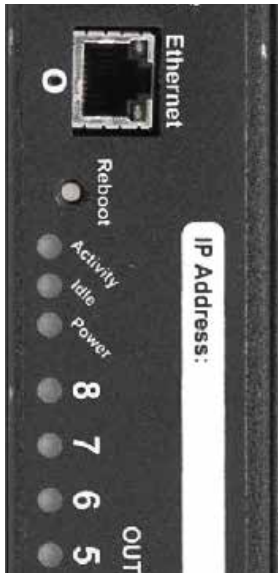
Trough Spacers

Cable wiring spacer kits feature a simple 6" wide access panel design that can be easily removed to manage cable drops or power strip mounting between two racks, or at the end of a row. They can also be used in conjunction with vertical cable troughs or trough spacer panels to create the necessary 6" space width to finish off a cable trough design.

Trough spacer panels feature a simple "u" design and are used to cost-effectively create an additional 6" depth for cable drops between two racks or at the end of a row. They can also be used in conjunction with vertical cable troughs or cable wiring spacer kits to create the necessary 6" space width to finish off a cable trough design.



Power



PDR1908N-20-120P1-0010



Power Options

Choose from our standard selection of power components, which address today's demands for power distribution, environmental monitoring and security concerns. Advanced three-phase models in 20 and 30-amp, and 60-amp for single phase are available with or without monitoring. 15 and 20-amp strips are available in 120V and 208V – in metered or non-metered versions. All models have receptacle and plug options.

We can quote all rack power requirements. All PDUs feature a 10' power cord (unless otherwise specified). Most PDUs mount to 3G power/cable panels with a tool-less system for easy on/off deployment. Other power options are quoted upon request.

Power Specifications

Part Number	Length	# of Outlets	Receptacle Type	Amp	Phase	Volts	Circuit Breaker	Plug	Power Meter
PDR6633D-DA-208P3-2010T	66"	24	C-13	30		208V	Yes	L21-30P	Yes
		3	C-19	30	3	208V			
		6	5-20R	20		120V			
PDR6624E-20-120P3-0010T	66"	21	C-13	20	3	120V	Yes	L21-30P	Yes
		3	C-19	20		120V			
PDR7224E-30-208P3-2010T	72"	21	C-13	30	3	208V	Yes	L21-30P	Yes
		3	C-19						
PDR1908N-20-120P1-0010	19"	8	5-20R	20	Single	120V	Yes	5-20P	Yes
PDR6624N-20-120P3-0010T	66"	24	5-20R	20	3	120V	Yes	L21-30P	Yes
PDR6624N-20-120P3-2010T	66"	24	5-20R	20	3	120V	Yes	L21-30P	Yes
PDR6630E-30-208P3-2010T	66"	24	C-13	30	3	208V	Yes	L21-30P	Yes
		6	C-19						
PDR6630E-20-120P1-0010	66"	24	C-13	20	Single	120V	No	5-20P	Yes
		6	C-19						
PDR6624N-30-120P1-2010T	66"	24	5-20R	30	Single	120V	Yes	L5-30P	Yes
PDR6630E-60-208P1-2010E	66"	24	C-13	60	Single	208V	Yes	IEC 60309	Yes
		6	C-19						



Power



PDR6633D-DA-208P3-2010T



PDR6624N-20-120P3-0010T



PDR6630E-30-208P3-2010T



PDR6630E-20-120P1-0010



PDR6624N-30-120P1-2010T



PDR6630E-60-208P1-2010E

Note: Not all PDUs shown

Power Specifications

Part Number	Length	# of Outlets	Receptacle Type	Amp	Phase	Volts	Circuit Breaker	Plug	Power Meter
PDU3910N-15-120P1-1510	39"	10	NEMA 5-15R	15	Single	120V	Yes-Thermal	NEMA 5-15P Straight	NO
PDU3910N-15-120P1-1510T	39"	10	NEMA 5-15R	15	Single	120V	Yes-Thermal	NEMA L5-15P TL	NO
PDU4814N-15-120P1-1510	48"	14	NEMA 5-15R	15	Single	120V	Yes-Thermal	NEMA 5-15P Straight	NO
PDU4814N-15-120P1-1510T	48"	14	NEMA 5-15R	15	Single	120V	Yes-Thermal	NEMA L5-15P TL	NO
PDU6620N-15-120P1-1510	66"	20	NEMA 5-15R	15	Single	120V	Yes-Thermal	NEMA 5-15P Straight	NO
PDU6620N-15-120P1-1510T	66"	20	NEMA 5-15R	15	Single	120V	Yes-Thermal	NEMA L5-15P TL	NO
PDU3910N-15-120P1-2010	39"	10	NEMA 5-20R	20	Single	120V	Yes-Thermal	NEMA 5-20P Straight	NO
PDU3910N-15-120P1-2010T	39"	10	NEMA 5-20R	20	Single	120V	Yes-Thermal	NEMA L5-20P TL	NO
PDU4814N-15-120P1-2010	48"	14	NEMA 5-20R	20	Single	120V	Yes-Thermal	NEMA 5-20P Straight	NO
PDU4814N-15-120P1-2010T	48"	14	NEMA 5-20R	20	Single	120V	Yes-Thermal	NEMA L5-20P TL	NO
PDU6620N-15-120P1-2010	66"	20	NEMA 5-20R	20	Single	120V	Yes-Thermal	NEMA 5-20P Straight	NO
PDU6620N-15-120P1-2010T	66"	20	NEMA 5-20R	20	Single	120V	Yes-Thermal	NEMA L5-20P TL	NO



Accessories



Solid Stationary Shelf
SH3G24



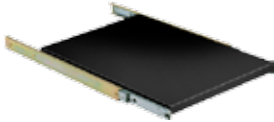
Vented Stationary Shelf
SHV3G24



Solid Light Duty Shelf



Vented Light Duty Shelf



Solid Retractable Shelf
SHR3G24



Vented Retractable Shelf
SHRHV3G24



Solid Adjustable Shelf
UA-SHAS



Vented Adjustable Shelf
UA-SHAV



24" Frame Width
SFP3G24-2
SFP3G24-4

29" Frame Width
SFP3G29-2
SFP3G29-4

Shelves

Stationary shelves mount to the front and rear of the mounting channel and are available in solid or vented models. They are load-rated at 250 lbs.

UA shelves are light duty and can mount to the front of the mounting channel. The shelves are 19" wide and 18" deep. They are capable of supporting components up to 50 lbs., with the exception of the 1RU shelf which holds 15 lbs.

Retractable Shelves

Retractable shelves are available in solid or vented models and are load-rated at 233 lbs.

Adjustable Shelves

Adjustable shelves are 1.75" height (1RU), fit 19" width panel openings, and have depths of 17" up to 40". They are available in solid or vented models and are load-rated to support up to 250 lbs. Shelves mount to the front and rear of the mounting channels.

Fan Panels

AMCO fan panels are available in a two-fan or four-fan models, feature a 5' power cord w/ plug and can be mounted to all 3G vented doors except curved doors. Each 115v BTA4 fan has 100 CFM of cooling.

*Note: "2" at the end of part number is for 200CFM
"4" at the end of the part number is for 400CFM*



Accessories



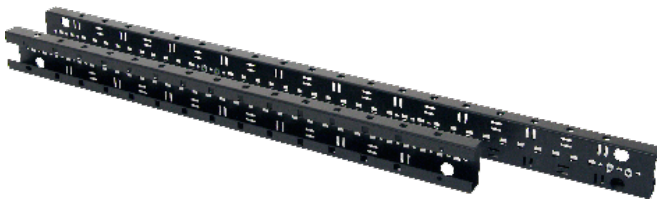
24" Frame Width
 BPLT3G24-45
 BPLT3G24-42
 BPLT3G24-39



Blanking Panels
 BPT3G24-1U
 BPT3G24-2U
 BPT3G24-3U
 BPT3G24-4U
 BPT3G24-8U



Chassis Guides
 CG3G



Base Plates

3G base plates are available in a solid model that features dual brush strips for cable egress. Dual brush strips keep dirt and dust out while providing a seal for the inside rack. Base plates mount to the inner frame flanges at the bottom of the rack. They are available in the same rack widths and depths as the 3G racks.

Blanking Panels

AMCO blanking panels close off unused RUs in the rack to optimize cold-air deployment within the rack. Blanking panels are available either flat or formed and feature tool-less mounting.

Chassis Guides

Chassis guides mount to the front and rear face of the mounting channels and have a 2" x 2" profile. Chassis guides have a load rating of 125 lbs. per pair.

Side Struts

Multi-formed side struts are required for mounting channels within the 3G rack. Choose from the full-length strut that provides full front-to-rear adjustments or the power panel side strut that is used when power panels are part of the rack design. Both feature M6 and slotted holes for cable management. This strut can accept the HK-CR1 ring kit accessory that includes 10 qty 3.42" x 1.38" tool-less cable rings.

Depth	Full Length	Power Panel
45"	AFS3G45	OFAS3G45
42"	AFS3G42	OFAS3G42
39"	AFS3G39	OFAS3G39



Accessories



Dzus M6
HKDZ-25



M6
HKM6-25



Joining Kit
HK-R-TN



Light Duty Caster
CA-C175



Heavy Duty Caster
CA-C1200

Hardware Kits

Each rack ships with 50 Dzus M6 inserts and screws to make mounting hardware/components easy to install. Additional mounting hardware is available for equipment mounting and includes:

- HKDZ-25– Easy-on M6 hardware for fast equipment mounting (25 pieces)
- HKM6-25 or 50 – Traditional M6 hardware for equipment mounting (25 or 50 pieces)
- HK-R-TN – Frame-joining kit (8 pieces)

Casters

3G casters bolt to the heavy duty frame base and are available with a 175 lb. per caster load rating, or a 600 lb. load-rated model for heavy duty equipment support.

Warranty and Policies

A. Choice of Method of Shipment

Unless otherwise specified, AMCO Enclosures frames are shipped as individual modules per ISTA packaging certification with single width components assembled on the frame. Console arrangements may also be crated for shipment. Crating charges will be quoted for each such order, as console arrangements vary.

B. Design Changes

To allow continued progress, improvement, and adaptability in an advancing industry, AMCO Enclosures reserves the right to make product changes as deemed necessary.

C. Price Discounts

Purchase orders cannot be combined for discount advantages.

D. Proprietary Rights

The catalog and drawings contain information deemed proprietary to AMCO Enclosures and are to be used only for the purposes for which they are submitted and, further, shall not be copied in whole or in part without the prior written consent of AMCO Enclosures.

E. Cancellation & Return

Cancellation and return charges begin at 40% with a minimum of \$50.00, depending on the nature of the order and the extent to which it has been processed. All returns have a 30-day, upon receipt, time limit. Returns must be freight prepaid and not made without the prior written approval of AMCO Enclosures.

F. Terms

All quotations, order confirmations, published prices, and discounts based on delivery F.O.B. AMCO Enclosures, 1 Innovation Drive, Des Plaines, IL freight collect. Invoice payment terms-net 30 days.

G. Sales Representation

Experienced factory sales representatives in all principle cities of the U.S.A., Canada and Mexico. Ask for sales representative listing. AMCO Enclosures equipment is thoroughly inspected prior to shipment. No returns of damaged equipment will be accepted without prior written approval of AMCO Enclosures.

Limited Warranty

AMCO Enclosures will repair or replace enclosures, accessories, and components manufactured by AMCO Enclosures that are proven to be defective in material or factory workmanship under normal use during the Period of this Warranty.

Warranty Period

Ten years from date of purchase. (Non-transferable)

This warranty does not cover:

Failure in whole or part resulting from misuse, alteration, excessive temperature, excessive humidity, corrosive environment, or lack of maintenance.

Any materials or components used or manufactured pursuant to the purchaser's specifications.

Items ordered in error or not required.

Power/Accessories

Warranty as specified by manufacturer.

Warranty Repair

Purchaser shall obtain controlled authorization number before returning any items alleged to be defective to AMCO Enclosures.

Inspection

AMCO Enclosures shall have the right to inspect any and all allegedly defective items on-site at purchaser's convenience.

Disclaimer of Consequential Damages and Limitations of Implied Warranty

AMCO Enclosures disclaims any responsibility for loss of time or use of parts or equipment wherein AMCO Enclosures, components, or accessories are used, transportation or any other incidental or consequential damage; and any implied Warranties including the implied Warranty of merchantability and fitness for intended use are limited to the duration of this written warranty.

1 Innovation Drive
Des Plaines, IL 60016
847-391-8100
www.amcoenclosures.com



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