

# Power Distribution

PRODUCTS GUIDE

Reliable, high-quality solutions to power, protect, and monitor today's network servers and equipment.

**Amphenol**  
**Broadband Solutions®**



## DC Power Distribution Panels

Amphenol delivers reliable, high-quality solutions to power, protect, and monitor today's network servers and equipment with a variety of power distribution unit (PDU) solutions, including fuse panels and circuit breaker panels with current capacities up to 1000 amp inputs and 400 amp outputs. With our nrgSMART™ power monitoring solutions, we design and manufacture the equipment to keep your network up and moving forward. Our power equipment is NEBS Level 3 independently tested and certified and UL-Listed.



### 250TPA08

Our 250TPA08/nrg250TPA08 fuse panels are 250A dual-feed and provide 8/8 TPA fuse positions.



### 300CB08

300CB08/nrg300CB08 circuit breaker panels are 325A dual-feed and provide 8/8 breaker positions.



### 240GT54

Our 240GT54/nrg240GT54 combination fuse panels are 240A dual-feed and provide 5/5 GMT fuse positions and 4/4 TPA fuse or circuit breaker positions.



### 125GMT10 & 125GMT15

125GMT10/nrg125GMT10 and 125GMT15/nrg125GMT15 fuse panels are 125A dual-feed and provide 10/10 and 15/15 GMT fuse positions.



## All New 1RU Panels Offer Multiple Options

### Connectorization

Rack space is at premium, and we know network engineers want to fill it with revenue-generating equipment; connectorized power cabling frees up valuable rack space.

- ▶ Outputs come straight out of the panel, so that a 1RU panel is truly 1RU
- ▶ Save time & effort installing connectorized cable vs standard lugs
- ▶ Cables can be purchased with connectors pre-installed
- ▶ It takes seconds to populate a panel vs. minutes
  - ▶ Standard terminals require removing and replacing 2 screws per circuit. Connectors take seconds to plug in and are plugged in one way.
  - ▶ No risk of over-torqueing or of dropping screws
- ▶ Connectors take up less space
  - ▶ Most cables “waterfall” straight down, parallel to the rack, interfering with equipment below the power panel.
  - ▶ Connectors are routed straight back, parallel to the floor, opening access to equipment directly below the power panel – where your revenue is generated!



Panel	Connector Type
(nrg)300CB08-C and -SC (nrg)250TPA08-C and -SC (nrg)240GT54-C and -SC (TPA Outputs)	4mm
(nrg)125GMTxx-C (nrg)240GT54-C and -SC (GMT Outputs)	2.4mm

# Connectorized Whips Part Configurator

TF2

Connector Type	
P40	4.0mm
P24	2.4mm

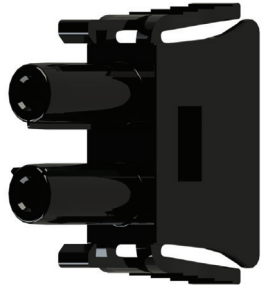
Batt Cable Color	
1	Red
2	Blue
3	Black
4	Gray

RTN Cable Color	
1	Red with Black Trace
2	Blue with Black Trace
3	Black
4	Gray with Black Trace

Wire Gauge	
6	
8	
10	
12	
14	
16	
18	
20	

Note:  
4.0mm connectors work with: 6, 8, 10, & 12.  
2.4mm connectors work with: 10, 12, 14, 16, 18, & 20.

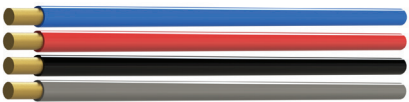
Cable Length (ft)	
01 - 99	



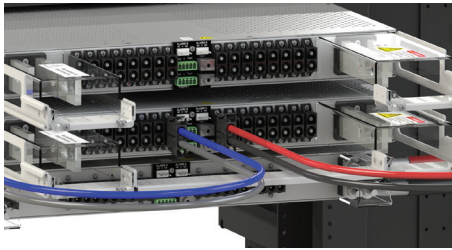
2.4 mm connector



4.0 mm connector



Cable colors



Installed connector

## nrgSMART™ Technology

Amphenol is excited to announce integrated nrgSMART technology. nrgSMART technology is now an option with all our new 1RU power distribution products. This new architecture allows direct network connection to each individual nrgSMART panel or the capability to interconnect multiple nrgSMART panels over nrgNET serial cabling with a single network connection. Combining our new integrated nrgSMART circuitry with our new connector design provides a simpler and faster integration with enhanced data capabilities, and a better experience for our customers.



## 250TPA08

### 250A Dual-Feed 8/8 TPA Fuse Panel

The Amphenol 250TPA08/nrg250TPA08 fuse panels are 250A dual-feed and provide 8/8 TPA fuse positions. Our 250TPA08/nrg250TPA08 panels feature  $\pm 12/\pm 24/\pm 48V$  operating voltages to serve both legacy and “next-gen” network applications. Engineered into a standard 1RU footprint, each circuit supports up to 50A TPA fuse in each position, providing ample capacity for distribution to a broad range of components. Advanced circuit-level monitoring features are available in the nrgSMART™ platform. The panel is available in standard terminal block outputs or connectorized outputs.



### Ordering Options:

Part Number	Inputs		Outputs		nrgSMART	
	Vertical Dual Stud	Horizontal Busbar	Screw Terminal	Connectorized	Controller	Sensors
250TPA08-16F	x		x			
250TPA08-C-16F		x		x		
250TPA08-SC-16F	x			x		
nrg250TPA08-CTRL-16F	x		x		x	
nrg250TPA08-SENS-16F	x		x			x
nrg250TPA08-CTRL-C-16F		x		x	x	
nrg250TPA08-SENS-C-16F		x		x		x
nrg250TPA08-CTRL-SC-16F	x			x	x	
nrg250TPA08-SENS-SC-16F	x			x		x

## 300CB08

### 325A Dual-Feed 8/8 Circuit Breaker Panel

The Amphenol 300CB08/nrg300CB08 circuit breaker panels are 325A dual-feed and provide 8/8 breaker positions. Our 300CB08/nrg300CB08 panels feature  $\pm 12/\pm 24/\pm 48V$  operating voltages to serve both legacy and “next-gen” network applications. Engineered into a standard 1RU footprint, each circuit supports up to 60A breakers in each position, providing ample capacity for distribution to a broad range of components. Advanced circuit-level monitoring features are available in the nrgSMART™ platform. The panel is available in standard terminal block outputs or connectorized outputs.



### Ordering Options:

Part Number	Inputs		Outputs		nrgSMART	
	Vertical Dual Stud	Horizontal Busbar	Screw Terminal	Connectorized	Controller	Sensors
300CB08	x		x			
300CB08-C		x		x		
300CB08-SC	x			x		
nrg300CB08-CTRL	x		x		x	
nrg300CB08-SENS	x		x			x
nrg300CB08-CTRL-C		x		x	x	
nrg300CB08-SENS-C		x		x		x
nrg300CB08-CTRL-SC	x			x	x	
nrg300CB08-SENS-SC	x			x		x

## 240GT54

### 240A Dual-Feed 9/9 TPA/GMT Fuse Panel

The Amphenol 240GT54/nrg240GT54 combination fuse panels are 240A dual-feed and provide 5/5 GMT fuse positions and 4/4 TPA fuse or circuit breaker positions. Our 240GT54/nrg240GT54 panels feature  $\pm 12/\pm 24/\pm 48V$  operating voltages to serve both legacy and “next-gen” network applications. Engineered into a standard 1RU footprint, with circuits that support up to 20A GMT fuses and 50A TPA fuses or 60A breakers in each position, providing ample capacity for distribution to a broad range of components. Advanced circuit-level monitoring features are available in the nrgSMART™ platform. The panel is available in standard terminal block outputs or connectorized outputs.



### Ordering Options:

Part Number	Inputs		Outputs		nrgSMART	
	Vertical Dual Stud	Horizontal Busbar	Screw Terminal	Connectorized	Controller	Sensors
240GT54	x		x			
240GT54-C		x		x		
240GT54-SC	x			x		
nrg240GT54-CTRL	x		x		x	
nrg240GT54-SENS	x		x			x
nrg240GT54-CTRL-C		x		x	x	
nrg240GT54-SENS-C		x		x		x
nrg240GT54-CTRL-SC	x			x	x	
nrg240GT54-SENS-SC	x			x		x

## 125GMT10 & 125GMT15

### 125A Dual-Feed GMT Fuse Panel

The Amphenol 125GMT10/nrg125GMT10 and 125GMT15/nrg125GMT15 fuse panels are 125A dual-feed and provide 10/10 and 15/15 GMT fuse positions. Our 125GMT/nrg125GMT panels feature  $\pm 12/\pm 24/\pm 48V$  operating voltages to serve both legacy and “next-gen” network applications.

Engineered into a standard 1RU footprint that support up to 20A GMT fuse in each position, providing ample capacity for distribution to a broad range of components. Advanced circuit-level monitoring features are available in the nrgSMART™ platform. The panel is available in standard terminal block outputs or connectorized outputs.



### Ordering Options:

Part Number	Fuse Positions		Inputs	Outputs		nrgSMART	
	10x10	15x15	Horizontal Dual Stud	Screw Terminal	Connectorized	Controller	Sensors
125GMT10	x		x	x			
125GMT10-C	x		x		x		
nrg125GMT10-CTRL	x		x	x		x	
nrg125GMT10-SENS	x		x	x			x
nrg125GMT10-CTRL-C	x		x		x	x	
nrg125GMT10-SENS-C	x		x		x		x
125GMT15		x	x	x			
125GMT15-C		x	x		x		
nrg125GMT15-CTRL		x	x	x		x	
nrg125GMT15-SENS		x	x	x			x
nrg125GMT15-CTRL-C		x	x		x	x	
nrg125GMT15-SENS-C		x	x		x		x



## Our Story

Amphenol is a global innovative original equipment manufacturer that serves the data and communications markets. Leading the industry with a high-quality, seamless product portfolio of fiber distribution, cable management, DC power, racks, passives, and enclosures.



With integrity at the core of our business, we adhere to the highest ethical standards in relationships with our customers, suppliers, and partners.

## CCS (Custom Configured Solutions)

Whether you are responsible for the layer one infrastructure of a Data Center, a C-Ran Hub, Central Office, Head End or a different area of the network, our CCS application engineering team can support your latest project by developing a complete solution that is future proof. Our industry experts create:

- ▶ Custom configurations to meet the specific requirements of your network locations
- ▶ Solutions: fiber management, DC power, optical passives, cable management, and racks
- ▶ Drawings and a complete bill of materials ready to order
- ▶ Detailed fiber raceway layouts for each network location
- ▶ Pre-terminated solutions that save time and money on installations



## Robust Distribution Channel



Our distribution partner programs offer global channel support to provide product availability when and where you need us.

Our end-to-end quality solutions, combined with availability across our partner networks, helps you deploy faster, meet your deadlines, all while minimizing your costs. Whether you purchase our products directly from us, or through our partner network, we care about your success and provide full support from network planning to installation.

# Amphenol

## Our Parent Company

Amphenol is one of the largest manufacturers of interconnect products in the world with a global vision to connect people with technology. Our goal is simple - develop leading technologies that enhance the performance of our customers' products, systems, and networks.



**NYSE: APH**  
Fortune 500  
9+ Billion in Sales



**100+ Businesses**  
As diverse as the customers we serve, all are united by one Amphenol culture.



**89-year history**



**82K employees**

## Amphenol Markets



IT DATACOM

MOBILE DEVICES



MOBILE NETWORKS

BROADBAND



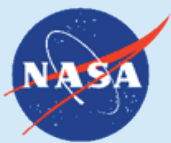
AUTOMOTIVE

COMMERCIAL AEROSPACE



MILITARY

INDUSTRIAL



### Fun Fact

Amphenol connectors are on Mars! Our connectors enable the ability to capture clear images during the exploration program.