

# Power

## Ordering Guide



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## Overview

Power requirements can vary from location to location, with distribution to different types of network elements the primary driver. Network architects and engineers require a broad range of options—including input amperage ratings, fuse types and amperages, circuit breakers and panel design—to find the best fit for their applications.



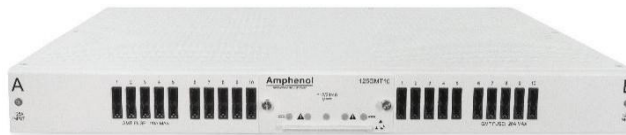
Amphenol Network Solutions power products ensure long-term network performance and optimal protection of active gear. We are a market leader in secondary and tertiary DC power distribution, providing the highest quality and broadest portfolio of products. Over the last 10 years, Amphenol Network Solutions has sold more than 250,000 panels with zero in-service failures.

## Key Benefits

- Quality engineered product that will not fail
- Broad choice of DC power distribution panels with industry-leading density
- Best-in-industry warranty: five-year standard
- UL/NEBS tested
- Exceptional service and support

## Panels

### GMT



GMT fuse panels accommodate a wide variety of inputs, from 60A up to 100A. Panels support up to 20A fuses to handle a wide range of equipment, universal operating voltage ( $\pm 24/-48$  VDC) and special features such as noise filtering or load sharing. They fit any network environment—from traditional central offices to customer premise and wireless applications.

### KLM



The KLM fuse panels allow engineers to transition to higher current demands (up to 30A) while maintaining traditional low-current distribution. Most KLM panels are combination KLM/GMT panels that take up just one rack unit of space and support up to 4x4 KLM/GMT distribution per bus. Higher density panels and load-sharing options are available to fit low-current distribution network environments.

## TPA



The TPA fuse panel offers industry-leading high-density fuse protection for both high-current and low-current equipment in one space-saving panel. It's ideal for managing power to routers, DSLAMs, optical MUXes and other active equipment. Inputs range from 100A to 200A, allowing their use across the full range of secondary distribution and the lower range of battery distribution. Available in a variety of configurations, including combination panels with both GMT and TPA fuses, these panels provide an excellent balance of capacity and variety of fuse protection, from 8 circuits per feed up to 16 circuits per feed, and from fuse values from <math><1A</math> to 50A.

## Circuit Breaker



### *High Current*

High-current circuit-breaker panels allows engineers to bring power management closer to network elements. Ranging from 200A to 600A inputs, Amphenol Network Solutions circuit breaker panels provide flexibility for primary and secondary distribution when a full battery distribution frame is not required. 1RU panels support up to 60A circuit breakers, and 2RU panels support up to 100A breakers per position, or TPS/TLS fuses with a TFD fuse holder. Some models support multi-pole breakers at even higher current ratings. This offers even more flexibility and choice for powering network gear.

### *Low Current*

This factory-configured panel is pre-loaded and ready for deployment. The low-current circuit breaker panel offers the convenience of circuit breakers for traditional power distribution and flexibility with a broad range of factory-installed breakers supporting up to 20A per output to meet many application needs. Its compact 1RU design maximizes rack space.

## Demarcation



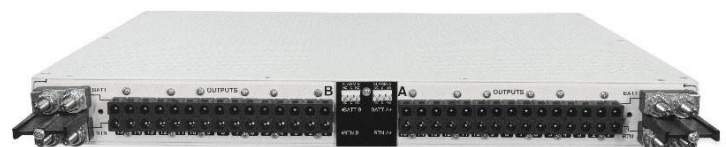
Amphenol Network Solutions demarcation circuit-breaker panels provide a demarcation point for large power feeds between primary distribution and network equipment. Panels range from one rack unit supporting four 100A inputs to two rack units supporting up to eight 125A inputs. Almost all panels accommodate both TFD fuse holders and bullet-style circuit breakers.

# 1. GMT Fuse Panels

Part Number	Description
125GMT10	125A MAX, DUAL 10/10 20A MAX GMT,+/-12,24,48VDC,1RU
125GMT10-C	125A MAX, DUAL 10/10 GMT, +/-12,24,48VDC,1RU, CONNECTORIZED
nrg125GMT10-CTRL	125A MAX, DUAL 10/10 20A MAX GMT,+/-12,24,48VDC,1RU, nrgSMART CONTROLLER
nrg125GMT10-SENS	125A MAX, DUAL 10/10 20A MAX GMT,+/-12,24,48VDC,1RU, nrgSMART SENSORS
nrg125GMT10-CTRL-C	125A MAX, DUAL 10/10 GMT, +/-12,24,48VDC,1RU, CONNECTORIZED, nrgSMART CONTROLLER
nrg125GMT10-SENS-C	125A MAX, DUAL 10/10 GMT, +/-12,24,48VDC,1RU, CONNECTORIZED, nrgSMART SENSORS
125GMT15	125A MAX, DUAL 15/15 20A GMT, +/-12,24,48VDC, 1RU
125GMT15-C	125A MAX, DUAL 15/15 GMT, +/-12,24,48VDC, 1RU, CONNECTORIZED
nrg125GMT15-CTRL	125A MAX, DUAL 15/15 20A GMT, +/-12,24,48VDC, 1RU, nrgSMART CONTROLLER
nrg125GMT15-SENS	125A MAX, DUAL 15/15 20A GMT, +/-12,24,48VDC, 1RU, nrgSMART SENSORS
nrg125GMT15-CTRL-C	125A MAX, DUAL 15/15 GMT, +/-12,24,48VDC, 1RU, CONNECTORIZED, nrgSMART CONTROLLER
nrg125GMT15-SENS-C	125A MAX, DUAL 15/15 GMT, +/-12,24,48VDC, 1RU, CONNECTORIZED, nrgSMART SENSORS
60GMT10	DUAL,60A,10/10 GMT,ALARM,+/-24-48VDC
GMT05FA	DUAL 5/5 GMT TFA,50A , UNIVERSAL +/-24/48VDC
HPGMT10FA	100A MAX,DUAL 10/10 20A GMT,STUD/SCREW,FRONT CVR,UNIVERSAL VDC,BAY ALARM,2RU,UNIVERSAL MOUNT,TFA
HPGMT20	100A MAX,DUAL 20/20 20A GMT,STUD/SCREW,R CVR,UNIVERSAL VDC,BAY ALARM,1 RU,23" MOUNT ONLY
009-0014-1001	FUSE PNL,DBL,10,COMP,BLK
009-0016-1001	FUSE PNL,DBL,10,COMP,BLK,FLT
009-2005-0000	50A 10/10 GMT, -48VDC, LOAD SHARING, BLACK
0HPGMT05NR	HI PWR FP 10/10 GMT,STUD /SCREW,FILTER, 19",R CVR
20HPGMT05BNR	HI PWR FP 10/10 20A GMT, STUD/SCREW,BAY ALM,FILTR
20HPGMT05FR	HI PWR FP 10/10 20A GMT, STUD/SCREW,FAILSAFE,R CV
60GMT20	GMT FUSE PANEL:DUAL,60A,20/20 GMT,ALARM,+/-24-48Vdc
HPGMT10FA-1RU	100A MAX,DUAL 10/10 20A GMT,STUD/SCREW,FRONT CVR,UNIVERSAL VDC,BAY ALARM,1RU,UNIVERSAL MOUNT,TFA
HPGMT20S	100A MAX,SINGLE 20 20A GMT,STUD/SCREW,R CVR,UNIVERSAL VDC,BAY ALARM,1 RU,UNIVERSAL MOUNT



125GMT10



125GMT15-C (Rear view)

## GMT Fuse Panel Matrix

Part Number	Input Rating per Bus	Max. Fuse Size	VDC	Feed Type	Fuses per Bus	RU	Mounting	Specialty Type
125GMT10	125A	20A	±12/24/48	Dual	10	1	19"/23"	Screw Terminal Outputs
125GMT10-C	125A	20A	±12/24/48	Dual	10	1	19"/23"	Connector Outputs
nrg125GMT10-CTRL	125A	20A	±12/24/48	Dual	10	1	19"/23"	nrgSMART Controller
nrg125GMT10-SENS	125A	20A	±12/24/48	Dual	10	1	19"/23"	nrgSMART Sensors
nrg125GMT10-CTRL-C	125A	20A	±12/24/48	Dual	10	1	19"/23"	Connector Outputs, nrgSMART Controller
nrg125GMT10-SENS-C	125A	20A	±12/24/48	Dual	10	1	19"/23"	Connector Outputs, nrgSMART Sensors
125GMT15	125A	20A	±12/24/48	Dual	15	1	19"/23"	Screw Terminal Outputs
125GMT15-C	125A	20A	±12/24/48	Dual	15	1	19"/23"	Connector Outputs
nrg125GMT15-CTRL	125A	20A	±12/24/48	Dual	15	1	19"/23"	nrgSMART Controller
nrg125GMT15-SENS	125A	20A	±12/24/48	Dual	15	1	19"/23"	nrgSMART Sensors
nrg125GMT15-CTRL-C	125A	20A	±12/24/48	Dual	15	1	19"/23"	Connector Outputs, nrgSMART Controller
nrg125GMT15-SENS-C	125A	20A	±12/24/48	Dual	15	1	19"/23"	Connector Outputs, nrgSMART Sensors
60GMT10	60A	15A	±24/-48	Dual	10	1	19"/23"	
GMT05FA	50A	15A	±24/-48	Dual	5	1	19"/23"	Total Front Access/Gray
HPGMT10FA	100A	20A	±24/-48	Dual	10	2	19"/23"	Total Front Access
HPGMT20	100A	20A	±24/-48	Dual	20	1	23"	Bay Alarms
009-0014-1001	50A	15A	-48	Dual	10	1	19"/23"	Black
009-0016-1001	30A	15A	-48	Dual	10	1	19"/23"	Noise Filtering/Black
009-2005-0000	25A	15A	-48	Dual	10	1	19"/23"	Load Sharing/Black
0HPGMT05NR	75A	15A	-48	Dual	10	1	19"/23"	Noise Filtering
20HPGMT05BNR	75A	20A	-48	Dual	10	1	19"/23"	Bay Alarms/Noise Filtering
20HPGMT05FR	75A	20A	-48	Dual	10	1	19"/23"	Load Sharing
60GMT20	60A	15A	±24/-48	Dual	20	1	19"/23"	
HPGMT10FA-1RU	100A	20A	±24/-48	Dual	10	1	23"	Bay Alarms/Total Front Access
HPGMT20S	100A	20A	±24/-48	Single	20	1	19"/23"	Bay Alarms

## 2. KLM Fuse Panels

Part Number	Description
009-8004-0104	FUSE PNL:DUAL,4/4 KLM/GMT,100A,-48/-24/+24
009-8004-0100N	FUSE PNL:DUAL,100A,KLM,-48ALRM,NEBS COMPLIANT
009-8004-0104H	FUSE PNL:DUAL,4/4 KLM/GMT,150A,-48/-24/+24
009-8004-0105	FUSE PNL:100A,5X5,KLM,COMP,WHT,NO GMT
009-8004-0124	FUSE PNL:LOAD SHR,100A,KLM/GMT,-48V
009-8004-0208	FUSE PNL:DUAL KLM/GMT,200A,-48 ALRM



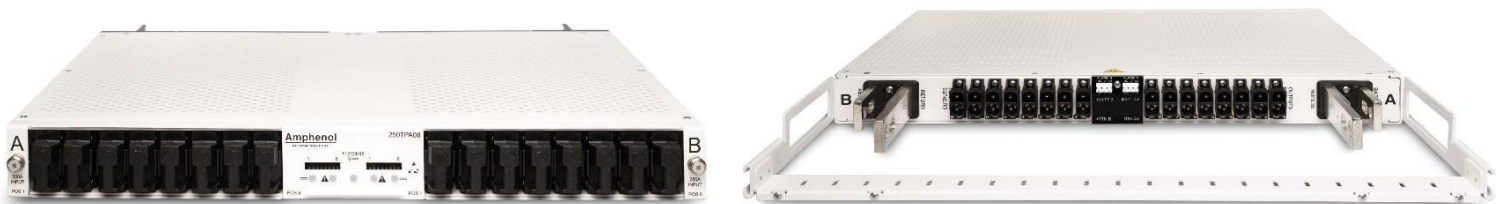
009-8004-0104

### KLM Fuse Panel Matrix

Part Number	Input Rating per Bus	Max. Fuse Size	VDC	Feed Type	Fuses per Bus	RU	Mounting	Specialty Type
009-8004-0104	100A	30A KLM 15A GMT	±24/-48	Dual	4/4	1	19"/23"	
009-8004-0100N	100A	30A KLM 10A GMT	-48	Dual	4/4	1	19"/23"	
009-8004-0104H	150A	30A KLM 15A GMT	-48	Dual	4/4	1	19"/23"	
009-8004-0105	100A	30A KLM	±24/-48	Dual	4	1	19"/23"	
009-8004-0124	50A	30A KLM 15A GMT	±24/-48	Dual	4/4	1	19"/23"	Load Sharing
009-8004-0208	200A	30A KLM 15A GMT	±24/-48	Dual	8/8	2	19"/23"	

### 3. TPA Fuse Panels

Part Number	Description
250TPA08-16F	DUAL, 250A, 8/8 TPA, +/-12,24,48VDC,1RU, WHT,16 FUSE HLDR
250TPA08-C-16F	DUAL, 250A, 8/8 TPA, +/-12,24,48VDC,1RU, WHT, CONN,16 FUSE HLDR
250TPA08-SC-16F	DUAL, 250A, 8/8 TPA, +/-12,24,48VDC,1RU, WHT, VERT DUAL STUD INPUTS, CONN, 16 FUSE HLDR
nrg250TPA08-CTRL-16F	DUAL, 250A, 8/8 TPA, +/-12,24,48VDC, 1RU, WHT, nrgSMART CONTROLLER
nrg250TPA08-SENS-16F	DUAL, 250A, 8/8 TPA, +/-12,24,48VDC, 1RU, WHT, nrgSMART SENSORS
nrg250TPA08-CTRL-C-16F	DUAL, 250A, 8/8 TPA, +/-12,24,48VDC, 1RU, WHT, CONN, nrgSMART CONTROLLER
nrg250TPA08-SENS-C-16F	DUAL, 250A, 8/8 TPA, +/-12,24,48VDC, 1RU, WHT, CONN, nrgSMART SENSORS
nrg250TPA08-CTRL-SC-16F	DUAL, 250A, 8/8 TPA, +/-12,24,48VDC, 1RU, WHT, VERT INPUTS, CONN, nrgSMART CONTROLLER
nrg250TPA08-SENS-SC-16F	DUAL, 250A, 8/8 TPA, +/-12,24,48VDC, 1RU, WHT, VERT INPUTS, CONN, nrgSMART SENSORS
240GT54	DUAL, 240A, 5 GMT/4 TPA, +/-12,24,48VDC, 1RU
240GT54-C	DUAL, 240A, 5 GMT/4 TPA, +/-12,24,48VDC, 1RU, CONN
240GT54-SC	DUAL, 240A, 5 GMT/4 TPA, +/-12,24,48VDC, 1RU, VERT DUAL STUD INPUTS, CONN
nrg240GT54-CTRL	DUAL, 240A, 5 GMT/4 TPA, +/-12,24,48VDC, 1RU, nrgSMART CONTROLLER
nrg240GT54-SENS	DUAL, 240A, 5 GMT/4 TPA, +/-12,24,48VDC, 1RU, nrgSMART SENSORS
nrg240GT54-CTRL-C	DUAL, 240A, 5 GMT/4 TPA, +/-12,24,48VDC, 1RU, CONN, nrgSMART CONTROLLER
nrg240GT54-SENS-C	DUAL, 240A, 5 GMT/4 TPA, +/-12,24,48VDC, 1RU, CONN, nrgSMART SENSORS
nrg240GT54-CTRL-SC	DUAL, 240A, 5 GMT/4 TPA, +/-12,24,48VDC, 1RU, VERT DUAL STUD INPUTS, CONN, nrgSMART CONTROLLER
nrg240GT54-SENS-SC	DUAL, 240A, 5 GMT/4 TPA, +/-12,24,48VDC, 1RU, VERT DUAL STUD INPUTS, CON nrgSMART SENSORS
009-8005-0810	DUAL FEED 350A, 8/10 TPA/GMT FUSE ALARM PANEL, +/-24-48VDC
009-8005-0420	FUSE PNL: DUAL, 4/20, TPA/GMT, 260A, -48/-24/+24, WHT, 2RU
009-8005-4404	FUSE PNL: QUAD 100,4/4, TPA/GMT, -48, WHT, 1RU
009-8005-4404H	FUSE PNL: QUAD 130,4/4, TPA/GMT, -48, WHT, 1RU



250TPA08-C-16F (Front and rear view)



## TPA Fuse Panel Matrix

Part Number	Input Rating per Bus	Max. Fuse Size	VDC	Feed Type	Fuses per Bus	RU	Mounting	Specialty Type
250TPA08-16F	250A	50A	±12/24/48	Dual	8	1	19"/23"	Screw Terminal Outputs
250TPA08-C-16F	250A	50A	±12/24/48	Dual	8	1	19"/23"	Connector Outputs
250TPA08-SC-16F	250A	50A	±12/24/48	Dual	8	1	19"/23"	Vert Dual Stud Inputs, Conn Outputs
nrg250TPA08-CTRL-16F	250A	50A	±12/24/48	Dual	8	1	19"/23"	Vert Dual Stud Inputs, Screw Term Outputs w/nrgSMART Controller
nrg250TPA08-SENS-16F	250A	50A	±12/24/48	Dual	8	1	19"/23"	Vert Dual Stud Inputs, Screw Term Outputs w/nrgSMART Sensors
nrg250TPA08-CTRL-C-16F	250A	50A	±12/24/48	Dual	8	1	19"/23"	Horizontal Busbar Inputs, Conn Outputs, w/nrgSMART Controller
nrg250TPA08-SENS-C-16F	250A	50A	±12/24/48	Dual	8	1	19"/23"	Horizontal Busbar Inputs, Conn Outputs, w/nrgSMART Sensors
nrg250TPA08-CTRL-SC-16F	250A	50A	±12/24/48	Dual	8	1	19"/23"	Vert Dual Stud Inputs, Conn outputs, w/nrgSMART Controller
nrg250TPA08-SENS-SC-16F	250A	50A	±12/24/48	Dual	8	1	19"/23"	Vert Dual Stud Inputs, Conn outputs, w/nrgSMART Sensors
240GT54	240A	50A TPA 60A GMT	±12/24/48	Dual	4/5	1	19"/23"	Screw Terminal Outputs
240GT54-C	240A	50A TPA 60A GMT	±12/24/48	Dual	4/5	1	19"/23"	Connector Outputs
240GT54-SC	240A	50A TPA 60A GMT	±12/24/48	Dual	4/5	1	19"/23"	Vert Dual Stud Inputs, Conn Outputs
nrg240GT54-CTRL	240A	50A TPA 60A GMT	±12/24/48	Dual	4/5	1	19"/23"	Vert Dual Stud Inputs, Screw Term Outputs w/nrgSMART Controller
nrg240GT54-SENS	240A	50A TPA 60A GMT	±12/24/48	Dual	4/5	1	19"/23"	Vert Dual Stud Inputs, Screw Term Outputs w/nrgSMART Sensors
nrg240GT54-CTRL-C	240A	50A TPA 60A GMT	±12/24/48	Dual	4/5	1	19"/23"	Horizontal Busbar Inputs, Conn Outputs, w/nrgSMART Controller
nrg240GT54-SENS-C	240A	50A TPA 60A GMT	±12/24/48	Dual	4/5	1	19"/23"	Horizontal Busbar Inputs, Conn Outputs, w/nrgSMART Sensors
nrg240GT54-CTRL-SC	240A	50A TPA 60A GMT	±12/24/48	Dual	4/5	1	19"/23"	Vert Dual Stud Inputs, Conn outputs, w/nrgSMART Controller
nrg240GT54-SENS-SC	240A	50A TPA 60A GMT	±12/24/48	Dual	4/5	1	19"/23"	Vert Dual Stud Inputs, Conn outputs, w/nrgSMART Sensors
009-8005-0810	350A	50A TPA 15A GMT	±24/-48	Dual	8/10	2	19"/23"	

Part Number	Input Rating per Bus	Max. Fuse Size	VDC	Feed Type	Fuses per Bus	RU	Mounting	Specialty Type
009-8005-0420	260A	50A TPA 15A GMT	±24/-48	Dual	4/20	2	19"/23"	
009-8005-4404	100A	50A TPA 15A GMT	-48	Quad	2/2	1	19"/23"	Quad Feed
009-8005-4404H	130A	50A TPA 15A GMT	-48	Quad	2/2	1	19"/23"	Quad Feed



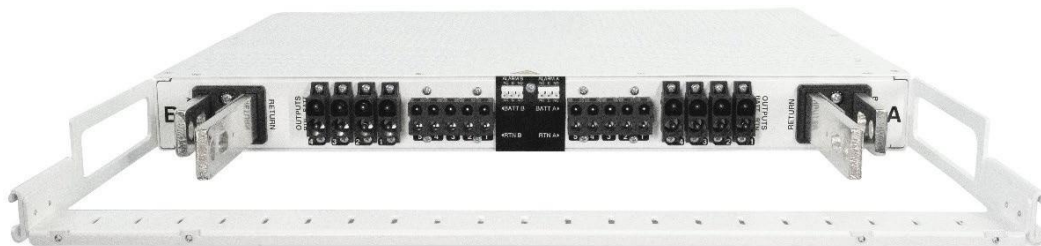
nrg240GT54-CTRL Front



240GT54-SC Front



240GT54 (Rear view)



240GT54-C (Rear view)

## 4. Circuit Breaker Panels

All circuit breaker panels (except the T009-5xxxxxxx family) will also support TFD holders for TPS or TLS fuses.

Part Number	Description
300CB08	DUAL, 325A, 8/8 CB, +/-12,24,48VDC, 1RU
300CB08-C	DUAL, 325A, 8/8 CB, +/-12,24,48VDC, 1RU, CONNECTORIZED
300CB08-SC	DUAL, 325A, 8/8 CB, +/-12,24,48VDC, 1RU, VERT INPUTS, CONNECTORIZED
nrg300CB08-CTRL	DUAL, 325A, 8/8 CB, +/-12,24,48VDC, 1RU, nrgSMART CONTROLLER
nrg300CB08-SENS	DUAL, 325A, 8/8 CB, +/-12,24,48VDC, 1RU, nrgSMART SENSORS
nrg300CB08-CTRL-C	DUAL, 325A, 8/8 CB, +/-12,24,48VDC, 1RU, CONN, nrgSMART CONTROLLER
nrg300CB08-SENS-C	DUAL, 325A, 8/8 CB, +/-12,24,48VDC, 1RU, CONN, nrgSMART SENSORS
nrg300CB08-CTRL-SC	DUAL, 325A, 8/8 CB, +/-12,24,48VDC, 1RU, VERT INPUTS, CONN, nrgSMART CONTROLLER
nrg300CB08-SENS-SC	DUAL, 325A, 8/8 CB, +/-12,24,48VDC, 1RU, VERT INPUTS, CONN, nrgSMART SENSORS
009-6212-2100	FUSE PNL, DBL,6, COMP, REAR OUTPT, WHT, HC FUSE/BRKR
350CB06	HIGH CURRENT PANEL: DUAL, 350A, 6/5 CB(TFD)/GMT, Alarm, +24/-24/-48Vdc
600CB08	LOAD CENTER: DUAL, 600A, 8/5 CB/GMT, ALARM, +/-24-48VDC
600CB10-CL	LOAD CENTER FRAME: 600CB10-C W/ 1-POLE LOAD STRAPS
600CB10-VL	LOAD CENTER FRAME: 600CB10 W/ 1-POLE LOAD STRAPS
T009-5xx0xxxxxx*	DUAL-FEED CB PNL,7/7

\* See configuration information below circuit breaker panel product matrix



300CB08 Front



300CB08 (Rear view)



300CB08-C (Rear view)

## Circuit Breaker Panel Matrix

Part Number	Input Rating per Bus	Max. Ckt Bkr or Fuse Size	VDC	Feed Type	Fuses per Bus	RU	Mounting	Specialty Type
300CB08	325A	60A	±12/24/48	Dual	8	1	19"/23"	Screw Terminal Outputs
300CB08-C	325A	60A	±12/24/48	Dual	8	1	19"/23"	Connector Outputs
300CB08-SC	325A	60A	±12/24/48	Dual	8	1	19"/23"	Vert Dual Stud Inputs, Connector Outputs
nrg300CB08-CTRL	325A	60A	±12/24/48	Dual	8	1	19"/23"	Vert Dual Stud Inputs, Screw Term Outputs w/nrgSMART Controller
nrg300CB08-SENS	325A	60A	±12/24/48	Dual	8	1	19"/23"	Vert Dual Stud Inputs, Screw Term Outputs w/nrgSMART Sensors
nrg300CB08-CTRL-C	325A	60A	±12/24/48	Dual	8	1	19"/23"	Horizontal Busbar Inputs, Conn Outputs w/nrgSMART Controller
nrg300CB08-SENS-C	325A	60A	±12/24/48	Dual	8	1	19"/23"	Horizontal Busbar Inputs, Conn Outputs w/nrgSMART Sensors
nrg300CB08-CTRL-SC	325A	60A	±12/24/48	Dual	8	1	19"/23"	Vert Dual Stud Inputs, Conn Outputs w/nrgSMART Controller
nrg300CB08-SENS-SC	325A	60A	±12/24/48	Dual	8	1	19"/23"	Vert Dual Stud Inputs, Conn Outputs w/nrgSMART Sensors
009-6212-2100	200A	100A	±24/-48	Dual	6	3	19"/23"	
350CB06	350A	See below 15A GMT	±24/-48	Dual	6/5	3	19"/23"	
600CB08	600A	100A 15A GMT	±24/-48	Dual	8/5	4	19"/23"	Bay Alarms
600CB10-CL	600A	See below	±24/-48	Dual	10/10	2	19"/23"	Horizontal Inputs, Load Straps Included
600CB10-VL	600A	See below	±24/-48	Dual	10/10	2	19"/23"	Vertical Inputs, Load Straps Included
T009-5xx0xxxxxxx	40A or 100A	20A	±24/-48	Dual	7/7	1	19"/23"	

### NOTES:

- All 350CB and 600CB circuit breaker panels support multi-pole breakers, and TFD fuse holders for TPS/TLS fuses. Single pole breaker maximum is 100A. Maximum fuse sizes are: TPS up to 70A; TLS up to 125A.
- 009-6212-2100 supports TFD fuse holders for TPS/TLS fuses. Maximum fuse sizes are: TPS up to 70A; TLS up to 100A.
- 300CB08 and T009 panels do not support multi-pole breakers, nor TFD fuse holders.

## T009-5xx0xxxxxxx Family Configuration Guide

T009-5 X X 0 ( X X X X X X X )  
 ↑ ↑ Breaker positions per side

Panel Color/Breaker Orientation

**0** = Black enclosure/Standard Breaker Installation with Off (O) at Top

**3** = White Enclosure/Breakers Installed with On (I) at Top

|

Inputs (Type of Connector & Input Circuit Breaker)

**0** = Screw-Tight Horizontal Inputs with 50A Thermal Input Breakers (40A inputs)

**1** = Compression Inputs with 50A Thermal Input Breakers (40A inputs)

**3** = Compression Inputs Without Input Breakers (100A max./side)

Circuit breaker values are denoted in part numbers as follows:

**0** = Blank

**1** = 1A

**3** = 3A

**5** = 5A

**A** = 10A

**F** = 15A

**K** = 20A

**NOTE:** Not all configurations are available; contact your Sales Representative.

## 5. Demarcation Panels

Part Number	Description
009-7000-0104	4 LINES 100AMP EA,COMP,ALM,CKT BKR
009-7001-0104B	QUAD, 125A, CB/TFD, PWR/FUSE ALARM
009-7001-0104B-TFD	QUAD, 125A, 4 TFD, PWR/FUSE ALARM



009-7000-0104

### Demarcation Panel Matrix

Part Number	Input Rating per Bus	Max. Fuse Size	VDC	Feed Type	Fuses per Bus	RU	Mounting	Specialty Type
009-7000-0104	100A	100A	±24/-48	Quad	1	1	19"/23"	Circuit Breakers only
009-7001-0104B*	125A	100A CB 125A Fuse	±24/-48	Quad	1	1	19"/23"	
009-7001-0104B-TFD	125A	125A Fuse	±24/-48	Quad	1	1	19"/23"	TFD Holders Pre-installed

\* Panel support circuit breakers or TFD holders for TPS/TLS fuses.

## Appendix

### i. Breaker Panel Map

Part	Rating	Type	007-001-260X	009-6212-2100	009-7000-0104	009-7000-0104B	009-7001-0104B	125DM08	125DM08-GMT	350CB08	300CB08	600CB08	600CB10-CL	nrg600BT08-M	nrg600BT10-C	nrg600BT20S-C	nrgBDFB-XLW
nrgBDB-2P-125	125A	2 Pole, 125AMP, Breaker/Adapter Kit for nrgBDFB															X
nrgBDB-2P-150	150A	2 Pole, 150AMP, Breaker/Adapter Kit for nrgBDFB															X
nrgBDB-2P-175	175A	2 Pole, 175AMP, Breaker/Adapter Kit for nrgBDFB															X
nrgBDB-2P-200	200A	2 Pole, 200AMP, Breaker/Adapter Kit for nrgBDFB															X
nrgBDB-3P-200	200A	3 Pole, 200AMP, Breaker/Adapter Kit for nrgBDFB															X
nrgBDB-3P-225	225A	3 Pole, 225AMP, Breaker/Adapter Kit for nrgBDFB															X
nrgBDB-3P-250	250A	3 Pole, 250AMP, Breaker/Adapter Kit for nrgBDFB															X
nrgBDB-3P-300	300A	3 Pole, 300AMP, Breaker/Adapter Kit for nrgBDFB															X
nrgBDB-4P-400	400A	4 Pole, 400AMP, Breaker/Adapter Kit for nrgBDFB															X
149710	5A	Ckt Bkr – 1RU Slimline									X						
149711	10A	Ckt Bkr – 1RU Slimline									X						
149712	15A	Ckt Bkr – 1RU Slimline									X						
149713	20A	Ckt Bkr – 1RU Slimline									X						
149714	25A	Ckt Bkr – 1RU Slimline									X						
149715	30A	Ckt Bkr – 1RU Slimline									X						
149716	40A	Ckt Bkr – 1RU Slimline									X						
149718	50A	Ckt Bkr – 1RU Slimline									X						
149719	60A	Ckt Bkr – 1RU Slimline									X						
090-0052-0001	1A	Ckt Bkr – asym sense pins w/faceplate (118714)		X	X	X	X	X	X	X							
090-0052-1001	1A	Ckt Bkr – asym sense pins w/faceplate (118714)	X														
090-0052-0002	2A	Ckt Bkr – asym sense pins w/faceplate (119103)		X	X	X	X	X	X	X							
090-0052-1002	2A	Ckt Bkr – asym sense pins w/faceplate (119103)	X														
090-0052-0003	3A	Ckt Bkr – asym sense pins w/faceplate (124210)		X	X	X	X	X	X	X							
090-0052-0005	5A	Ckt Bkr – asym sense pins w/faceplate (117852)		X	X	X	X	X	X	X							
090-0052-1005	5A	Ckt Bkr – asym sense pins w/faceplate (117852)	X														
090-0052-0010	10A	Ckt Bkr – asym sense pins w/faceplate (116669)		X	X	X	X	X	X	X							
090-0052-1010	10A	Ckt Bkr – asym sense pins w/faceplate (116669)	X														

Part	Rating	Type	007-001-260X	009-6212-2100	009-7000-0104	009-7000-0104B	009-7001-0104B	125DM08	125DM08-GMT	350CB08	300CB08	600CB08	600CB10-CL	nrg600BT08-M	nrg600BT10-C	nrg600BT20S-C	nrgBDFB-XLW
090-0052-0015	15A	Ckt Bkr – asym sense pins w/faceplate (115999)		X	X	X	X	X	X	X							
090-0052-1015	15A	Ckt Bkr – asym sense pins w/faceplate (115999)	X														
090-0052-0020	20A	Ckt Bkr – asym sense pins w/faceplate (116670)		X	X	X	X	X	X	X							
090-0052-1020	20A	Ckt Bkr – asym sense pins w/faceplate (116670)	X														
090-0052-0025	25A	Ckt Bkr – asym sense pins w/faceplate (117402)		X	X	X	X	X	X	X							
090-0052-1025	25A	Ckt Bkr – asym sense pins w/faceplate (117402)	X														
090-0052-0030	30A	Ckt Bkr – asym sense pins w/faceplate (116671)		X	X	X	X	X	X	X							
090-0052-1030	30A	Ckt Bkr – asym sense pins w/faceplate (116671)	X														
090-0052-0040	40A	Ckt Bkr – asym sense pins w/faceplate (116672)		X	X	X	X	X	X	X							
090-0052-1040	40A	Ckt Bkr – asym sense pins w/faceplate (116672)	X														
090-0052-0050	50A	Ckt Bkr – asym sense pins w/faceplate (116673)		X	X	X	X	X	X	X							
090-0052-1050	50A	Ckt Bkr – asym sense pins w/faceplate (116673)	X														
090-0052-0060	60A	Ckt Bkr – asym sense pins w/faceplate (118160)		X	X	X	X	X	X	X							
090-0052-1060	60A	Ckt Bkr – asym sense pins w/faceplate (118160)	X														
090-0052-0070	70A	Ckt Bkr – asym sense pins w/faceplate (118161)		X	X	X	X	X	X	X							
090-0052-1070	70A	Ckt Bkr – asym sense pins w/faceplate (118161)	X														
090-0052-0080	80A	Ckt Bkr – asym sense pins w/faceplate (118162)		X	X	X	X	X	X	X							
090-0052-1080	80A	Ckt Bkr – asym sense pins w/faceplate (118162)	X														
090-0052-0090	90A	Ckt Bkr – asym sense pins w/faceplate (118163)		X	X	X	X	X	X	X							
090-0052-1090	90A	Ckt Bkr – asym sense pins w/faceplate (118163)	X														
090-0052-0100	100A	Ckt Bkr – asym sense pins w/faceplate (118159)		X	X	X	X	X	X	X							
090-0052-1100	100A	Ckt Bkr – asym sense pins w/faceplate (118159)	X														
090-0001-0003	n/a	Ckt Bkr Blank		X				X	X	X							
090-0001-0020	n/a	Ckt Bkr Blank	X														
090-0001-0002	n/a	Ckt Bkr Faceplate		X				X	X	X							
090-0001-0021	n/a	Ckt Bkr Faceplate	X														
134634	125A	Ckt Bkr, Asym Sense Pins, Double-pole										X	X	X			X
134635	150A	Ckt Bkr, Asym Sense Pins, Double-pole										X	X	X			X



Part	Rating	Type	007-001-260X	009-6212-2100	009-7000-0104	009-7000-0104B	009-7001-0104B	125DM08	125DM08-GMT	350CB08	300CB08	600CB08	600CB10-CL	nrg600BT08-M	nrg600BT10-C	nrg600BT20S-C	nrgBDFB-XLW
135921	175A	Ckt Bkr, Asym Sense Pins, Double-pole	X									X	X	X			X
135922	200A	Ckt Bkr, Asym Sense Pins, Double-pole	X									X	X	X			X
143962	400A	Ckt Bkr, Asym Sense Pins, Four-pole											X				X
140368	20A	Ckt Bkr, Asym Sense Pins, Instantaneous trip		X	X			X		X		X		X			
140369	25A	Ckt Bkr, Asym Sense Pins, Instantaneous trip		X	X			X		X		X		X			
140370	30A	Ckt Bkr, Asym Sense Pins, Instantaneous trip		X	X			X		X		X		X			
140371	40A	Ckt Bkr, Asym Sense Pins, Instantaneous trip		X	X			X		X		X		X			
140372	50A	Ckt Bkr, Asym Sense Pins, Instantaneous trip		X	X			X		X		X		X			
140373	60A	Ckt Bkr, Asym Sense Pins, Instantaneous trip		X	X			X		X		X		X			
140374	70A	Ckt Bkr, Asym Sense Pins, Instantaneous trip		X	X			X		X		X		X			
140375	80A	Ckt Bkr, Asym Sense Pins, Instantaneous trip		X	X			X		X		X		X			
140376	90A	Ckt Bkr, Asym Sense Pins, Instantaneous trip		X	X			X		X		X		X			
140377	100A	Ckt Bkr, Asym Sense Pins, Instantaneous trip		X	X			X		X		X		X			
130434	10A	Ckt Bkr, Asym Sense Pins, Mid trip										X					
130054	20A	Ckt Bkr, Asym Sense Pins, Mid trip										X					
128264	30A	Ckt Bkr, Asym Sense Pins, Mid trip										X					
127186	40A	Ckt Bkr, Asym Sense Pins, Mid trip										X					
127185	50A	Ckt Bkr, Asym Sense Pins, Mid trip										X					
127881	60A	Ckt Bkr, Asym Sense Pins, Mid trip										X					
118714	1A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
119103	2A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
124210	3A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
117852	5A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
116669	10A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
115999	15A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
116670	20A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
117402	25A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
116671	30A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
116672	40A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
116673	50A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
118160	60A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
118161	70A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
118162	80A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
118163	90A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
118159	100A	Ckt Bkr, Asym Sense Pins, Std trip	X	X	X	X	X	X	X	X		X	X	X			X
134636	200A	Ckt Bkr, Asym Sense Pins, Triple-pole										X	X	X			X

Part	Rating	Type	007-001-260X	009-6212-2100	009-7000-0104	009-7000-0104B	009-7001-0104B	125DM08	125DM08-GMT	350CB08	300CB08	600CB08	600CB10-CL	nrg600BT08-M	nrg600BT10-C	nrg600BT20S-C	nrgBDFB-XLW
134637	225A	Ckt Bkr, Asym Sense Pins, Triple-pole										X	X	X			X
134638	250A	Ckt Bkr, Asym Sense Pins, Triple-pole										X	X	X			X
150576	300A	Ckt Bkr, Asym Sense Pins, Triple-pole										X	X	X			X
147604	5A	Ckt Bkr, Sym Sense Pin													X	X	
147605	10A	Ckt Bkr, Sym Sense Pin													X	X	
147606	15A	Ckt Bkr, Sym Sense Pin													X	X	
147607	20A	Ckt Bkr, Sym Sense Pin													X	X	
147608	25A	Ckt Bkr, Sym Sense Pin													X	X	
147609	30A	Ckt Bkr, Sym Sense Pin													X	X	
147610	40A	Ckt Bkr, Sym Sense Pin													X	X	
147611	50A	Ckt Bkr, Sym Sense Pin													X	X	
147612	60A	Ckt Bkr, Sym Sense Pin													X	X	
147613	70A	Ckt Bkr, Sym Sense Pin													X	X	
147614	80A	Ckt Bkr, Sym Sense Pin													X	X	
147615	90A	Ckt Bkr, Sym Sense Pin													X	X	
147616	100A	Ckt Bkr, Sym Sense Pin													X	X	
148038	125A	Ckt Bkr, Sym Sense Pin, Double-Pole													X	X	
148039	150A	Ckt Bkr, Sym Sense Pin, Double-Pole													X	X	
148040	175A	Ckt Bkr, Sym Sense Pin, Double-Pole													X	X	
148041	200A	Ckt Bkr, Sym Sense Pin, Triple-Pole													X	X	
148042	225A	Ckt Bkr, Sym Sense Pin, Triple-Pole													X	X	
148043	250A	Ckt Bkr, Sym Sense Pin, Triple-Pole													X	X	
138680	2.5A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
136983	5A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
138679	7.5A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
138678	10A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
138677	15A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
138676	20A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
138675	30A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
138674	40A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
138673	50A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
138672	60A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
138671	70A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
138670	80A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
138669	90A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
138392	100A	Ckt Bkr, Sym Sense Pin, Mid trip													X	X	
143463	150A	Ckt Bkr, Sym Sense Pins, Mid trip, Double-Pole													X	X	
143465	200A	Ckt Bkr, Sym Sense Pins, Mid trip, Double-Pole													X	X	

ii. Fuses

**Table 1 – GMT Fuses**

GMT Fuse	Part Number
18/100A	130781
1/4A	100151
1/2A	004001
3/4A	004008
1A	100991
1-1/3A	004006
1-1/2A	004011
2A	004002
2-1/2A	130783
3A	004012
3-1/2A	130782
4A	004013
5A	004014
7-1/2A	004010
10A	004015
12A	102287
15A	102288
20A without Safety Cover	127240RC
20A with safety cover	131340
Dummy fuse	132748
GMT fuse safety cover	116915

**Table 2 – KLM and TPA Fuses**

KLM Fuse	Part Number	TPA Fuse	Part Number
1A	118675	5A	124818
2A	118676	10A	124819
5A	118673	15A	124820
10A	118438	20A	124821
15A	118439	25A	125244
20A	118440	30A	122734
25A	118441	40A	122738
30A	118442	50A	122739
Dummy KLM fuse	110852	Replacement TPA holder	146010*
		TPA fuse holder for 250TPA08 & 240GT54	307492

\*For all TPA panels EXCEPT 250TPA08 and 240GT54

**Table 3 – TPS and TLS Fuses**

TPS Fuse	Part Number	TLS Fuse	Part Number
3A	130749	80A	140640
5A	130481	90A	140641
10A	130485	100A	140642
15A	130487	110A	140643
20A	130489	125A	140644
25A	130476		
30A	130478	TPS/TLS Fuse Holder	129816
40A	130482	Compatible with: 600CBxx family, 350CB06, 007-0001-260x family, 009-6212-2100, 009-7000-0104 family, and 125DM08 family	
50A	130484		
60A	130486		
70A	130488		

**Table 4 – TPC Fuses**

TPC Fuse	Part Number
TPC Fuse Holder	129347
	Compatible with: 600CBxx family, 350CB06, 007-0001-260x family, 009-6212-2100, 009-7000-0104 family, and 125DM08 family
20A	146469
25A	125441
30A	125442
40A	125443
50A	125444
60A	125445
75A	125446
90A	125447
100A	125448
125A	125449

iii. Accessories

Part Number	Description
150325	Connector Kit: Plug, 2x Contacts, 12-10 AWG, 4.0mm
150326	Connector Kit: Plug, 2x Contacts, 8-6 AWG, 4.0mm
150333	Replaceable Contact: 8-6 AWG, Single, 4.0mm
150334	Replaceable Contact: 12-10 AWG, Single, 4.0mm
150336	Connector Kit: Plug, 2x Contacts, 12-10 AWG, 2.4mm
150342	Connector Kit: Plug, 2x Contacts, 14-12 AWG, 2.4mm
150343	Replaceable Contact: 12-10 AWG, Single, 2.4mm
150344	Replaceable Contact: 14-12 AWG, Single, 2.4mm
150797	Tool: 4mm Contact Removal, Plastic Handle

Panel	Connector Type
(nrg)300CB08-C and -SC (nrg)250TPA08-C and -SC (nrg)240GT54-C and -SC (TPA Outputs)	4.0mm
(nrg)125GMTxx-C (nrg)240GT54-C and -SC (GMT Outputs)	2.4mm



150797: 4mm Contact Removal Tool



Replaceable Contact



4.0mm Connector Kit



2.4mm Connector Kit