125GMT/nrg125GMT - 125A Dual-Feed GMT Fuse Panel

Power :: 10/10 and 15/15 Position GMT Fuse Panels

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Overview

The Amphenol Network Solutions 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 ±12/±24/±48V operating voltages to serve both legacy and "next-gen" network

Fig. 1: 125GMT10 Front View

applications. Engineered into a standard 1RU footprint that support up to 20A GMT fuses in each position, providing ample capacity for distribution to a broad range of components. The panel is available in standard terminal block outputs or connectorized outputs.

Fig. 2: 125GMT15 Rear View

This platform provides front access to GMT fuses. Also featured are front LED indicators for power/fuse alarms, monitoring status, rear connections for form C relay alarms, and optional nrgSMART connections.

Depending on the model, each of the 125A feeds provide power for up to 10 or 15 GMT output positions. Field replaceable GMT fuses are available from 18/100A to 20A. The panel supports universal voltages (±12VDC to ±48VDC).

Primary Benefits

- Universal voltage (±12VDC, ±24VDC and ±48VDC) enables standardization on a single part number for multiple voltages
- Up to 20A fuses for distribution to a variety of network elements
- UL and NEBS compliant to ensure industry-standard safety and functional requirements
- Form C relay contacts provide reliable alarm connections
- Integrated designation card holder for simple circuit identification
- Fail alarm LEDs indicate fuse and power failures
- Clear, flame-retardant polycarbonate cover (94V-0) protects input and output power connections and wiring from damage

- Horizontal feed inputs and a choice of outputs: either staggered terminal blocks that facilitate waterfall cable management, or connectors that speed up installation and allow cables to exit straight back from the panel
- Optional Individual Circuit Monitoring provides high accuracy, 100% passive monitoring
- Collect voltage and current for both feed and output circuit
- Collect temperature using optional nrgTEMP probes

Applications

- Wireless
- Central office
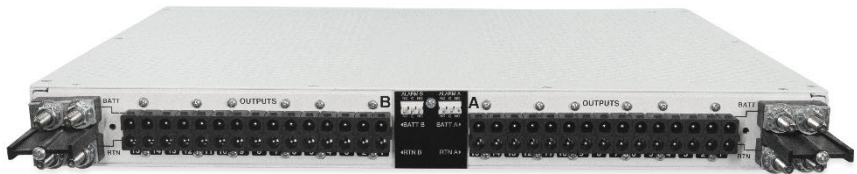- Co-location
- Remote sites
- Secondary distribution

Fig. 3: 125GMT15-C Rear View

Ordering Information

GMT Fuse Panel:	Part Number:
125A Dual-Feed, 10/10 Panel, Horizontal Inputs, Output Terminal Blocks	125GMT10
125A Dual-Feed, 10/10 Panel, Horizontal Inputs, Connectorized Outputs (Connectors purchased separately)	125GMT10-C
125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Output Terminal Blocks	125GMT15
125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Connectorized Outputs (Connectors purchased separately)	125GMT15-C
nrgSMART Circuit Monitoring, Controller, 125A Dual-Feed, 10/10 Panel, Horizontal Inputs, Output Terminal Blocks	nrg125GMT10-CTRL
nrgSMART Circuit Monitoring, Sensor, 125A Dual-Feed, 10/10 Panel, Horizontal Inputs, Output Terminal Blocks	nrg125GMT10-SENS
nrgSMART Circuit Monitoring, Controller, 125A Dual-Feed, 10/10 Panel, Horizontal Inputs, Connectorized Outputs (Connectors purchased separately)	nrg125GMT10-CTRL-C
nrgSMART Circuit Monitoring, Sensor, 125A Dual-Feed, 10/10 Panel, Horizontal Inputs, Connectorized Outputs (Connectors purchased separately)	nrg125GMT10-SENS-C
nrgSMART Circuit Monitoring, Controller, 125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Output Terminal Blocks	nrg125GMT15-CTRL
nrgSMART Circuit Monitoring, Sensor, 125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Output Terminal Blocks	nrg125GMT15-SENS
nrgSMART Circuit Monitoring, Controller, 125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Connectorized Outputs (Connectors purchased separately)	nrg125GMT15-CTRL-C
nrgSMART Circuit Monitoring, Sensor, 125A Dual-Feed, 15/15 Panel, Horizontal Inputs, Connectorized Outputs (Connectors purchased separately)	nrg125GMT15-SENS-C
Accessories (Purchased Separately):	**Part Number:**
Tie Bar Kit: Connectorized, Rear Mount Tie Bar, Mounting Hardware	307653
nrgSMART Temperature Sensor, ACC, 6ft	nrgTemp

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Replacement Components:	Part Number:
Replaceable Alarm Card	307608
Replaceable Alarm Card, nrgSMART	307710
Replaceable Controller Card, nrgSMART	400822
Replaceable Sensor Card, nrgSMART	307607
Dummy GMT fuse	132748
19" Mounting Bracket Kit: 2x 19" Brackets, Mounting Hardware	PMTG19
23" Mounting Bracket Kit: 2x 23" Brackets, Mounting Hardware	PMTG23
Connectors (Purchased Separately):	**Part Number:**
P24 Connector Kit: GMT, 12-10 AWG, Plug, Retainer, 2x Contacts	150336
P24 Connector Kit: GMT, 14-12 AWG, Plug, Retainer, 2x Contacts	150342
P24 Connector Kit: GMT, 16-14 AWG, Plug, Retainer, 2x Contacts	152029
P24 Connector Kit: GMT, 20-18 AWG, Plug, Retainer, 2x Contacts	152030
P24 Connector 5 Pack: GMT, 12-10 AWG, Set of 5 Plug Kits	150336-5
P24 Connector 5 Pack: GMT, 14-12 AWG, Set of 5 Plug Kits	150342-5
P24 Replaceable Contact: GMT, 12-10 AWG, Single Contact	150343
P24 Replaceable Contact: GMT, 14-12 AWG, Single Contact	150344
Crimp Tool: 14-6 AWG, Daniels, M300BT	150793
Crimp Tool Locator: Universal, Daniels, UH2-5	150794
GMT Fuses:	**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	127240
20A with cover	131340

Fig. 4: 125GMT10-CTRL

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Specifications

Inputs:	Specifications:
Voltage range (nominal voltage)	±12VDC, ±24VDC and ±48VDC
Max. input load rating Standard Versions: Connectorized Versions:	125A @ 65°C per panel 125A @ 55°C per panel (De-rated to 100A @ 65°C)
Short circuit withstand rating	5000A
Nominal power loss at full load	Less than 45W per side @5,000W full load per side (125A x 48V); 125A @ 65°C per panel
Percentage of full power dissipation at nominal voltage	Less than 0.5%
Max. input interrupt device	125% of panel rating (for 125A rated feeds)
Horizontal input terminal studs (with Keps nuts and flat washers) for dual-hole compression lugs	Two pairs of ¼-20 studs on $5/8$" centers per terminal [max. lug width of .5" (12.7 mm)]. Torque bolts (using $7/16$" or 12 mm socket) to 50 in/lb. (5.5 N•m), max.
Input wire size	#8 AWG to #1/0 AWG
Grounding:	**Specifications:**
Earth GND terminal bolts (with spring washers and flat washers) for dual-hole compression lug	Three sets of $1/4$-20 threaded holes on $5/8$" centers. [max. lug width of .5" (12.7 mm)]. Torque bolts (using $7/16$" or 12 mm socket) to 50 in/lb. (5.5 N•m), max.
Ground wire size	#6 AWG to #1 AWG
Outputs:	**Specifications:**
Output fuse	20A GMT Fuse
Output load	14A continuous GMT fuse
Minimum short circuit interrupt rating	5000A
Optional (Standard Versions): Terminal blocks, single-hole compression lugs	20 or 30, #6-32 screws [max. lug width of .31" (7.9)]. Torque screw to 8 in/lb. (.9 N•m), max.
Optional (Standard Versions): Output wire size, single-hole compression lug	#22 AWG to #6 AWG
Optional (-C Versions): Connectors (purchased separately)	20 or 30, P24 connector plugs, latching, safe touch
Optional (-C Versions): Output wire size, connectors	#20 AWG to #10 AWG
GMT fuses	Cooper Bussmann and Littelfuse
Alarms:	**Specifications:**
Alarm relay contacts	2A @ 30 VDC; 0.6A @ 60 VDC
Max. alarm card power rating	@12V: 18mA (0.22W) @24V: 20mA (0.48W); @48V: 30mA (1.44W)
Alarm wire size	#24 AWG, typical (#26 to #20 AWG)
Terminals	Wire wrap or mates with TE Connectivity 3-640428-3
Dimensions:	**Specifications:**
Standard Versions Height: Depth: Width:	1.75" (44 mm) 13.9" (353 mm) 17" (432 mm) without brackets 19" and 23" brackets included with panel
Connectorized Versions Height: Depth: Width:	1.75" (44 mm) 13.8" (350 mm) without tie bar 16.5" (419 mm) with tie bar 17" (432 mm) without brackets 19" and 23" brackets included with panel Tie bar not included with panel Cable-end connectors not included with panel

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Weights:	Specifications:
125GMT10	11.1 lbs.
125GMT15	12.0 lbs.
Compliance:	**Specifications:**
UL	Listed
NEBS	Level 3
Voltage Sensor (nrgSMART model only):	**Specifications:**
Sensor accuracy	-19.99 to +19.99V: ± 0.3V -20V to -60V: ± 0.1V +20V to +60V: ± 0.1V
Voltage measurement range	-60 to +60 VDC
NOTE: • Voltage measurement may be slightly different than at input terminal blocks due to the voltage drop within the panel. • Sensors are factory calibrated and do not require user adjustment.	
Current Sensor (nrgSMART model only):	**Specifications:**
Precision / accuracy	±5% precision, ±0.25A accuracy Example: 10A current, will measure 10A ± (10A*5%) ± 0.25A = 10A ± 0.5A ± 0.25A = 9.25A to 10.75A
Communication (nrgSMART model only):	**Specifications:**
nrgOS minimum required version	nrgOS 4.1.0
nrgNET communication protocol	Proprietary serial protocol used to communicate between panels and controller
nrgNET connector	Removable 5-pin connector with screw down terminals
nrgNET connector functions	nrgNET IN from the Controller or upstream nrgSMART panel, nrgNET OUT to downstream nrgSMART panel

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