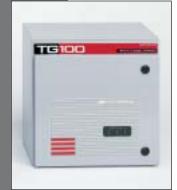


Fiberglass reinforced polyester enclosure



Metal enclosure

## ADVANCED ELECTRICAL TRANSIENT PROTECTION FOR MEDIUM-TO-LOW EXPOSURE APPLICATIONS

# Features and benefits

- Failure-Free ISB<sup>™</sup> eliminates PCB trace failures, provides precise current sharing
- All-copper, tin-plated bus provides minimum impedance, eliminates wire bends
- All MOVs are fused to ensure ongoing performance
- Safety interlocked entry door for added safety (only with disconnect)
- "All modes protection" safeguards all electrical modes (L-N, L-G, L-L, N-G)
- Direct bus connection minimizes installation impedances; provides 200 kAIC fault current protection
- Seven-Year Product Warranty (MasterPLAN selenium-enhanced 10-Year Warranty available when simultaneously installed with Current Technology® SELect® SEL300 or SEL250 units)

# **Applications**

- Branch panels heavily loaded with sensitive electronic equipment
- Branch panels with combination of dirty and sensitive loads
- Branch panels with no upstream protection
- Busway feeding sensitive loads
- Bus riser feeding multiple floors with critical or sensitive loads

## Standard TG100 Model Numbers

TG100-120/208-3GY	TG100-120/240-2G
TG100-220/380-3GY	TG100-120/240-3GHD
TG100-277/480-3GY	TG100-240-3DG
TG100-347/600-3GY	TG100-480-3DG

#### Maximum Continuous Operating Voltage (MCOV)

Voltage	MCOV	Voltage	ΜΟΟΥ
120V	150V	347V	420V
220V	275V	480V	640V
277V	320V	600V	840V

#### **Typical Clamping Voltage Data**

System Voltage	Mode	B3 Ringwave	B3/C1 Comb. Wave	C3 Comb. Wave	UL 1449 Second Edition
	L-N	325 / 350	425 / 450	625 / 725	400/400
120/240	L-G	400 / 450	425 / 475	625 / 750	500/500
120/208	N-G	375 / 375	475 / 475	750 / 750	400/500
	L-L	375 / 475	775 / 850	975 / 1200	700/700
	L-N	525 / 550	875 / 925	1150 / 1200	900/900
277/480	L-G	850 / 875	850 / 875	1075 / 1175	1000/1000
2, ,, 100	N-G	700 / 725	900 / 900	1200 / 1200	800/800
	L-L	675 / 725	1675 / 1725	1950 / 2175	1800/1500

All Current Technology suppression filter systems clamping voltages are in compliance with test and evaluation procedures outlined in NEMA LS 1-1992, paragraphs 2.210 and 3.10. Values following slash (/) indicate typical clamping voltage data for models with integral disconnect option.

### Filtering Attenuation Frequencies

50KHz	100KHz	500KHz	1MHz	5MHz	10MHz	50MHz	100MHz
50dB	44dB	34dB	33dB	34dB	36dB	47dB	53dB

## Single/Repetitive Surge Current Capacities

Protection mode	Single pulse surge current capacity/mode	Repetitive surge current capacity/mode
Line-to-Neutral	100,000 amps	4,500 impulses
Line-to-Ground	100,000 amps	4,500 impulses
Neutral-to-Ground	100,000 amps	4,500 impulses
Line-to-Line	100,000 amps	4,500 impulses
Per Phase	200,000 amps	N/A

In compliance with NEMA LS 1-1992, TransGuard suppression filter systems are single pulse surge current tested in all modes at rated currents of the product by an industry-recognized independent test laboratory. Single pulse surge current capacities of 200,000 amps or less are established by singleunit testing of all components within each mode. Per ANSI/IEEE C62.41-1991 and ANSI/IEEE C62.45-1992, TransGuard suppression filter systems are repetitive surge current capacity tested per mode utilizing a 1.2 x  $50\mu$ sec 20KV open circuit voltage, 8 x 20µsec 10 kA short circuit current Category C3 bi-wave at one minute intervals without suffering either performance degradation or more than 10% deviation of clamping voltage at a specified surge current.

### **Options (see page 5 for details)**

Primary Monitoring — L1	Integral Disconnect —DM (requires metal enclosure)	
Advanced Monitoring – L2	DTS-2 Diagnostic Test Set — DTS	
MasterMIND Diagnostic Monitoring — L3	MasterTEST Hand-Held Tester — MT	
NEMA 4/12 Metal Enclosure — M	Stainless Steel Enclosure —SS	

#### **Mechanical Specifications**

Dimensions: Fiberglass reinforced polyester: 17.5"H x 15.5"W x 7"D Metal: 20"H x 16"W x 9.5"D

#### Weight:

Fiberglass reinforced polyester: 40 lbs. Metal: 59 lbs. Enclosure type/mount: NEMA 4/12 surface **product specifications.** Operating environment: -40°C to +60°C 5% - 95% non- condensing humidity

Connection method: Parallel Protection Modes: L-N, L-G, N-G, L-L UL Listings: 1449-Second Edition 1283 **UL-Recognized fusing** 

# Contact factory for open-frame

DANAHER POWER SOLUTIONS 5900 EASTPORT BLVD., BLDG, V. RICHMOND, VA 23231-4453 TEL: 800.238.5000 FAX: 804.236.4047 www.danaher-DPS.com