



# TITAN<sup>®</sup> 500MP

## 500,000 Amp Panel Protection

EFI Electronics Titan 500MP delivers specification grade performance for service entrance or critical branch panel applications. This multi-phase protection system provides protection for all critical modes in a durable and safe package. The high performance of the Titan 500MP allows protection in the worst environments.



### APPLICATIONS

The Titan 500MP provides superior design, safety, and service life for a wide variety of commercial, industrial or institutional applications. The Titan 500MP offers unsurpassed performance and protection for demanding service entrance applications or as part of a complete suppression network. The robust modular construction minimizes possible down time and reduces maintenance costs. The 500MP features redundant diagnostic system alerts to ensure uninterrupted protection against harmful transients.

### SUPERIOR PERFORMANCE

The Titan 500MP utilizes 34 mm MOVs in a high-energy suppression circuit which provides 500,000 peak amps of surge current rating per phase. EFI Electronics' exclusive noise-reduction circuitry attenuates up to -30 dB of noise from 100 kHz to 100 MHz. The 500MP incorporates low impedance bolt-on construction to keep clamping voltages at industry leading levels.

### SAFETY

The Titan 500MP is engineered to be the industry's safest surge protection device with individually fused suppression modes, thermal cutout, and unsurpassed containment capabilities.

### EASY INSTALLATION

The Titan 500MP mounts adjacent to the panel through a conduit connection. The Titan 500MP can be mounted adjacent to the circuit breaker to be used in order to reduce lead lengths and improve protection.

FEATURES	ADVANTAGES	BENEFITS
NEMA 3R/12 Enclosure	Allows installation in outdoor applications	Provides protection to vulnerable equipment powered from weather exposed panels
500,000 Peak Amp Capacity	Provides longer service life and protection against nearby high-energy lightning strikes	Keeps valuable electronics safe even in the worst electrical conditions
Noise Reduction Circuitry	Increased transient suppression	Improves protection to the equipment
Advanced Diagnostics	Allows for online testing of the suppressors functionality	Allows immediate response if suppressor is damaged
Suppression Status Alarm	Provides immediate alarm if suppression is ever damaged	Warns if operating with reduced or without protection
LightningTemp <sup>®</sup> Fuse	Thermal fuse capable of extreme surge currents	Provides reliable operation and prevents dangerous thermal run-a-way if MOV's are damaged

# Titan 500MP Product Specifications

## MODELS AVAILABLE

T500MP120/240Y, T500MP120/208Y,  
T500MP240/120D, T500MP220/380Y,  
T500MP277/480Y, T500MP480, T500MP347/600Y

## PERFORMANCE

Surge Current Rating 500 kA/phase, L-N 250 kA, L-G 250 kA, N-G 250 kA  
Short Circuit Current Rating 200 kA  
EMI/RFI Noise Rejection Up to -30 dB  
Fusing Individually fused suppression modes  
Fault Current Fusing 200 kAIR


## MECHANICAL DESCRIPTION

Dimensions See image  
Housing Ratings NEMA 3R/12  
Product Weight 54 lbs  
Connection Method #10 - #2 AWG Terminals  
Mounting Method Parallel  
Thermal Fusing Yes, LightningTemp® Fuse  
Operating Frequency 50/60 Hz  
Circuit Type Parallel Hybrid  
Storage Temperature -40° to +149° F (-40° to +65° C)  
Operating Temperature -32° to +122° F (0° to +50° C)  
Operating Altitude Sea Level to 12,000 feet (3,658 Meters)

## DIAGNOSTICS

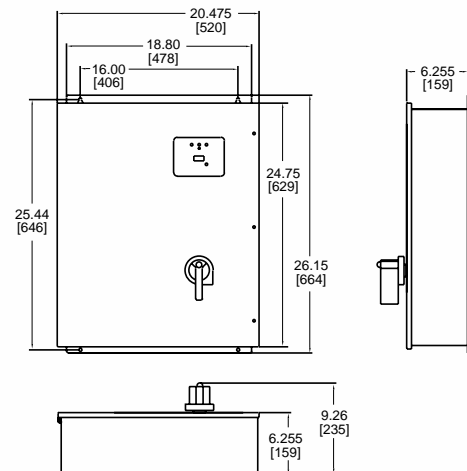
Standard Push to test Diagnostic Switches, Red & Green Status LED's per Phase, Module Status LED's per Mode, Dry Contacts, Audible Alarm with Disable Switch  
Optional Surge Counter, Integral Disconnect

## SAFETY AND PERFORMANCE

 1449 2nd Edition, UL 1283, cUL, CSA C22.2 No. 8-M1986 (E.F.N. No. 516), IEEE C62-41, NEMA LS-1

## WARRANTY

Product 10 years



Dimensions: in.  
[mm]

## TITAN 500MP SYSTEM DESCRIPTION

Model	Configuration	MCOV	UL 1449 2-nd Ed				ANSI C62.41.2-2002 Clamping Voltage		
			L-N	L-G	N-G	L-L	Cat A	Cat B	Cat C-Low
T500MP 120/240Y	1 Phase Wye, 3-wire + G	150	400	400	400	800	364	424	448
T500MP 120/208Y	3 Phase Wye, 4-wire + G	150	400	400	400	800	364	424	448
T500MP 240/120D	3 Phase Delta, 4-wire + G	275/150	800/400	400	400	1500/800	588/364	676/424	688/448
T500MP 220/380Y	3 Phase Wye, 4-wire + G	320	800	800	800	1500	776	816	856
T500MP 277/480Y	3 Phase Wye, 4-wire + G	320	800	800	800	1500	776	816	856
T500MP 480Y	3 Phase Wye, 3-wire + G	320	800	800	800	1500	776	816	856
T500MP 347/600Y	3 Phase Wye, 4-wire + G	420	1200	1200	1200	2000	896	1056	1088



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