

LoadTrack LTE

SYSTEM FEATURES





- Provides surge protection against harmful transient voltages that exceed the nominal operating voltage of AC critical dedicated control loads and telephone line applications
- Ideal for protecting the PLCs, fire alarm panels, ATM, electronic access readers, POS, building management systems and other mission critical loads
- Compact, fail-safe design allows flexible installation into electrical/control panels
- Dual Component-Level Fusing (CLF) standard

- Enhanced Transient Filter (ETF) standard
- NEMA LS1 compliance (NEMA LS1 2.2-9 and 3-9)
- Form C dry relay contacts for remote monitoring
- Recognized under UL 1449 2nd Edition as TVSS, UL 1283 as Electromagnetic Filter, UL 497A as Secondary Telephone Protector and cUL
- 15-Year Unlimited Free Replacement Warranty

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

Maximum Rated Surge Current: 70kA per phase **Application**: ANSI/IEEE C62.41 Location C, B & A

Design: Fail-safe design with dual component-level fusing

(secondary over-current and thermal protection)
Warranty: 15-Year Unlimited Free Replacement

Safety Listing: Recognized under UL 1449 2nd Edition TVSS, cUL, UL 1283 Filter, UL 497A Secondary Telephone Protector

ELECTRICAL SPECIFICATIONS

Modes of Protection: All modes. L-N, L-G, & N-G (for AC); Tip-to-Ring, Tip-to-Ground and Ring-to-Ground (for telecom) Input Power Frequency: 47-64 Hz (for AC); 10MHz (for telecom) Maximum Continuous Operating Current: 30 amps or 60 amps

Response Time: < 1 nanosecond

Standard Monitoring: Includes ultra bright LED status indicating light and Form C dry relay contacts for remote monitoring

Short Circuit Current Rating: 100kAIC short circuit current rating with a 30 amp or 60 amp max Class T fuse (based on current rating of device)

MECHANICAL SPECIFICATIONS

Dimensions: 4.73"H x 6.23"W x 2.37"D (30 amp models);

4.72"H x 7.29"W x 3.68"D (60 amp models) **Enclosure:** ABS Plastic UL94-5VA

Connection: (For Telecom) RJ14 modular jacks

(For AC) Hard-wired via box terminals on 30 amp models;

Stud-lugs on 60 amp models

Mounting: Multi-point mounting feet

Operating Environment: -40° C to 70° C (-40° F to 160° F);

5% to 95% non-condensing humidity

Weight: 30 amp models 1 lbs (0.45 kg); 60 amp models 2 lbs (0.9 kg)

AVAILABLE CONFIGURATIONS

Model Number	Configuration	Protection	Connection
TK-LTE120-30A-RJ	120V, 1ø 2-wire + grd 30 amps	AC & Telecom	Wire Terminals & RJ14
TK-LTE250-30A-RJ	250V, 1ø 2-wire + grd 30 amps	AC & Telecom	Wire Terminals & RJ14
TK-LTE120-30A	120V, 1ø 2-wire + grd 30 amps	AC only	Wire Terminals
TK-LTE250-30A	250V, 1ø 2-wire + grd 30 amps	AC only	Wire Terminals
TK-LTE120-60A	120V, 1ø 2-wire + grd 60 amps	AC only	Stud-lugs
TK-LTE250-60A	250V, 1ø 2-wire + grd 60 amps	AC only	Stud-lugs

AVAILABLE OPTION

 Din-rail mounting clips: add suffix "-DIN" Example: TK-LTE120-30A-RJ-DIN

EMI / RFI FILTER ATTENUATION – MIL STANDARD 220B

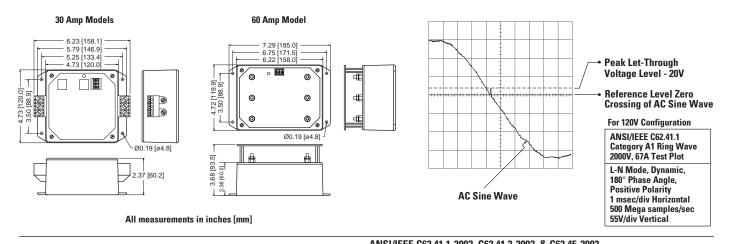
Frequency	Attentuation
1kHz	3 dB
10kHz	20 dB
100kHz	34 dB
1MHz	32 dB
10MHz	28 dB
20MHz	19 dB
Max. attenuation	35 dB @ 272kHz



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					ANSI/IEEE C62.41.1-2002, C62.41.2-2002, & C62.45-2002			
		System Configuration			M	easured Limited Vol	age	UL SVR
			Protection Mode M		All Models A1 Ring Wave 2kV, 67A 180° Phase Angle	All Models A3 Ring Wave 6kV, 200A 180° Phase Angle	B3/C1 Impulse Wave 6kV, 3kA	UL 1449 2nd Edition e Suppressed Voltage Ratings
Model	System							
Number	Voltage			MCOV				
TK-LTE120-30A	120V	1-Phase 2-wire+ground	L-N	150V	20V	60V	413V	400V
			L-G	150V	23V	56V	417V	400V
			N-G	150V	23V	59V	442V	400V
TK-LTE250-30A		1-Phase 2-wire+ground	L-N	275V	20V	63V	839V	800V
	250V		L-G	275V	21V	61V	855V	800V
			N-G	275V	23V	62V	884V	800V
TK-LTE120-30A-RJ		1-Phase 2-wire+ground	L-N	150V	21V	61V	412V	400V
	120V		L-G	150V	23V	62V	424V	400V
			N-G	150V	23V	61V	448V	400V
TK-LTE250-30A-RJ	250V	1-Phase 2-wire+ground	L-N	275V	20V	62V	832V	800V
			L-G	275V	23V	61V	863V	800V
			N-G	275V	24V	64V	870V	800V
TK-LTE120-60A		1-Phase 2-wire+ground	L-N	150V	21V	59V	400V	400V
	120V		L-G	150V	23V	63V	415V	400V
			N-G	150V	24V	65V	415V	400V
TK-LTE250-60A	250V	1-Phase 2-wire+ground	L-N	275V	21V	63V	816V	800V
			L-G	275V	23V	64V	832V	800V
			N-G	275V	23V	65V	832V	800V

All voltages are peak values (±10%) measured from the zero reference point at the phase angles referenced above using a 10 µs/div display rate and 500 MS/s sampling rate. Specifications subject to change without notice, see web site, www.TPSsurge.com for latest revisions.

TELECOM PERFORMANCE SPECIFICATIONS

Application: Standard voice grade dial-up telephone lines (POTS) up to 2 pairs

Design: Multi-stage hybrid

Maximum Rated Surge Current: 2kA per pair

Modes of Protection: All modes. Tip-to-Ring, Tip-to-Ground & Ring-to-Ground Safety Listing: Recognized under UL 497A as Secondary Telephone Protector

Maximum Operating Frequency: 10MHz

Maximum Data Rate: 2Mbps

Maximum Continuous Operating Voltage: 240V peak

Response Time: < 1 nanosecond

Measured Limited Voltage (IEC 10x700 µsec Impulse, 2kV/80A): 260V

Connection: Modula Jack RJ14 (accepts RJ11)

