

Transient Protection Design Commercial Grade Power Filter absorbs, dissipates and removes harmful transient voltages and noise traveling on individual 24 and 48 volt **AC & DC** power circuits reducing lockups, glitches, reprogramming issues & damage.

Improve power quality for your sophisticated electronic loads. **Rebooting, reprogramming and replacing processors, circuit boards and components** can be a never-ending battle. **Problems** in the system are as simple as occasional glitches locking up or turning on and off equipment without user input to **wide spread damage during a severe lightning storm**. Microprocessors read information through current pulses as binary code (0s and 1s). As different pieces of equipment, appliances and components turned on and off, voltage and current pulses, known as transients, are generated. These pulses of energy are distributed throughout every piece of equipment in the system. The problems will vary depending upon the size and frequency of these pulses. As microprocessors try to function, these transient pulses of energy will cause lock-ups where data can become lost or corrupted. **Larger pulses will cause catastrophic failure while smaller pulses degrade the life and reliability of these systems and controls.**

Designed for individual circuits feeding electronic and control systems such as:

- PLC • HVAC • Pumps • Gates • Fountains
- Dimming Modules • Landscape Lighting
- Lutron • Crestron • Vantage • LiteTouch

SPECIFICATIONS

- Maximum Rated Surge Current:** 20kA per phase
- Applications:** ANSI.IEEE C62.41 Location C, B & A
- Input Power Frequency:** 47 to 64Hz
- Standard Monitoring:** green status indication light
- Max Amperage:** 15 or 20 Amps
- Warranty:** 10-Year Unlimited Free Replacement
- Mode of Protection:** Line-line and line-ground and neutral-ground
- Response Time:** < 1 nanosecond
- Number of Protected Wires:** All wires
- Series Resistance:** <0.1 ohm
- Dimensions Case A:** 3.94"H x 1.40"W x 2.28"D
- Enclosure Type:** High-impact, non-metallic UL 94-5V flame resistant rated
- Connection Method:** Screw terminal connector; #16 - 8 AWG for 20 and 30 amp, #22 -12 AWG for 15 amp version.
- Mounting Method:** All units can be screw down or Din-Rail mounted.
- Operating Temperature:** -40° C to 85° C (-40° F to 185° F)
- Weight:** 0.50 lbs. (0.34 kg)
- Options:** Add "-NF" suffix to remove filter
Add "-R" Suffix for dry relay contacts

EMI/RFI ATTENUATION	
100kHz.....	29dB
1MHz.....	32dB



Power units are to be installed inside an enclosure.

Status Indicating Light



Din Rail or Screw Down Mountable

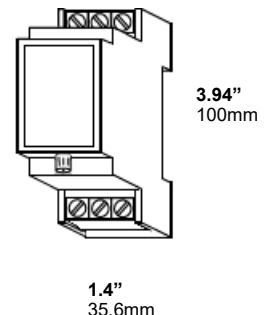


← Tabs slide out for screw down mounting.

Dimensions:
All measurements in inches [mm]

DM FILTER & SURGE VOLTAGES

Model #	Voltage Description	Strength Per Phase	*Measured Limited Voltage L-N			
			Strength Per System	*MLV (2kV, 67A)	*MLV (6kV, 200A)	*MLV (6kV, 3kA)
TK-DM24-15A	24Volts, 2W+G, 15 Amp Max	20kA	30kA	44V	83V	152V
TK-DM24-20A	24Volts, 2W+G, 20 Amp Max	20kA	30kA	44V	83V	152V
TK-DM48-15A	48Volts, 2W+G, 15 Amp Max	20kA	30kA	44V	115V	197V
TK-DM48-20A	48Volts, 2W+G, 20 Amp Max	20kA	30kA	44V	115V	197V



*MLV Test performed at the 180° Phase Angle on unit with filter