



UNITED POWER

Series GTR: Guardian Isolation Transformers

Features

General

- Universal Applications
 - Data Processing
 - Industrial/Process Control
 - NC MFG Equipment
 - Robotics
 - Telecommunications
 - Medical Imaging
- UL Listed
- Full System Tested
- Quality Design and Construction
- One Year Warranty

Electrical

- 15-500 kVA Systems
- Single Point Ground
- Excellent Noise Attenuation
- High Operating Efficiency
- K1-K30 Available
- Oversized Neutral to Handle Non-linear Loads
- Optional Equipment
 - Lightning Arrestor
 - Surge Suppressor
 - Transient Suppressor

Physical

- Small Footprint
- All Copper Windings
- Dual Electrostatic Shields
- Natural Convection Cooled
- Drip-proof Construction
- Quiet Operation

Common Mode Noise (N:G and L:G) and Transverse Mode Noise (L:L) can cause havoc to today's sophisticated processor-based systems. Typical problems range from read/write and parity errors to even hardware damage.

United Power has developed its Series GTR line of high isolation electrostatically shielded transformers to attenuate both Common Mode Noise and Transverse Mode Noise. Our Series GTR multi-shielded transformers, with

all copper windings, are specifically designed to protect you against these popular and often devastating power problems.

If electrical noise (see illustration) is your problem, United Power can solve it by applying the appropriate Series GTR high isolation product for your specific application.



Processors are found in virtually every aspect of industry—from control robotics, machine tools, telecommunications systems and, naturally, computer room equipment. Sensitive electronic

processors must receive noise-free power to operate efficiently. United Power Series GTRs are manufactured to protect your facility against common electrical noise-related power problems.

**Series GTR
Specifications**

- kVA Ratings**
15-500 kVA
- K-Factor Ratings**
K1 through K30
- 60 Hz Operating Frequency Range**
57-63 Hz
- 50 Hz Operating Frequency Range**
47-53 Hz
- Compensation Taps**
Qty 4, 2½% FCBN (10% Total)
Qty 2, 2½% FCAN (5% Total)
- Impedance**
5.2% Maximum
- Regulation**
±1.2% Typical
- Harmonic Distortion**
None Added
- Operating Efficiency**
97.5% Typical
- Dielectric Strength**
4500V Minimum
- Electromagnetic Noise**
<1 Gauss @ 18"
- Operating Temperature — Ambient**
0°C to +40°C
- Storage Temperature — Ambient**
10°C to +40°C
- Relative Operating Humidity**
90% Without Condensation
- Audible Operating Noise**
<45 dBA
- Operating Altitude**
Up to 8500 Feet

**Lightning Arrestor/
Surge Suppressor
Specifications**

- Lightning Arrestor**
- Arrestor Rating**
650 VAC
- Maximum FOW Sparkover**
3200 Volts
- Discharge Voltage**
2.2 kV @ 1500 Amps
- Current Wave**
8 x 20 Amps
- Discharge Capabilities**
20,000 Amps
- Surge Suppressor**
- Suppressor Rating**
650 VAC
- Discharge Voltage**
2.6 kV @ 1500 Amps
- Current Wave**
8 x 20 Amps
- Discharge Capabilities**
40,000 Amps

**Transient Voltage Surge
Suppression (TVSS) System
Specifications**

- Voltage Ratings**
208/120 VAC
- UL 1449 Clamping Voltage Rating**
120/208 VAC – 330 Volts
- Operating Frequency Range**
45-450 Hz
- Maximum Surge Current**
80,000 Amps
- EMI/RFI Noise Filtering**
40 db Nominal
- Response Time**
<1 Nanosecond
- Sinewave Tracking**
±20%

Physical Specifications: Series GTR Guardian Isolation Transformers

Cabinet	kVA	Width		Depth		Height		Unit Weight	
		In	Cm	In	Cm	In	Cm	Lb	Kg
GTR1	15	26	66	20	51	39	98	380	172
	22.5	26	66	20	51	39	98	400	181
	30	26	66	20	51	39	98	440	199
	50	26	66	20	51	39	98	510	231
GTR2	75	34	86	24	61	49	123	720	326
	100	34	86	24	61	49	123	840	380
	125	34	86	24	61	49	123	980	443
	150	34	86	24	61	49	123	1,090	493
	200	34	86	24	61	49	123	1,260	570
	225	34	86	24	61	49	123	1,430	647
GTR3	300	38	97	26	66	48	122	2,015	916
GTR4	400	52	132	30	76	60	152	2,590	1,177
	500	52	132	30	76	60	152	2,830	1,286



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