

Major1IT Isolation Transformers

The **Major1IT Isolation Transformer** is a reliable source of clean, conditioned power designed to protect sensitive equipment from all types of power disturbances and electrical noise.

The **Major1IT Isolation Transformer** is ideal for use in industrial, telecom, utility, medical, and military applications.



Product Features

- **Highly Shielded**
 - ▶ Hospital grade
- **Low Transfer Output Impedance**
- **Low Load Regulation**
 - ▶ 4% or less
- **Choice of Common Mode Noise Reduction Characteristic Model**
- **Small Footprint**
- **Exclusive Shielding**
- **Low Noise**
 - ▶ Reduces common mode and normal mode noise
 - ▶ Prevents back feeding of noise from line to load
- **Saves Valuable Space**
- **Fast Easy Installation**
- **Protects Sensitive Loads**
 - ▶ From surges & spikes
- **Low Leakage Current (full safe)**
 - ▶ Allows use of products in hospitals and medical labs
- **UL & cUL Listed**
- **Warranty**
 - ▶ 6 Years

Products Specifications

Electrical		
Power Ratings	0.125, 0.25, 0.5, 0.75, 1, 1.8, 2.4, 2.5, 5, 7.5, 10, 15 and 20 kVA, single Ø	
Input Voltage Range	±10% of nominal rated voltage	
Load Regulation	4% or less from no load to full load	
Technology	Highly shielded with REI/EMI filtering incorporated into design	
Frequency	47 Hz minimum for 50 Hz models; 57 Hz minimum for 60 Hz models	
Efficiency	97% typical	
Insulation Resistance	100 mH minimum from winding to core measured at 500 Vdc	
Common Mode Noise		
Common Mode Noise	150 dB	
Normal Mode Noise	65 dB	
Surge Suppression	Meets ANSI/IEEE standard C62.41, 1991 (IEEE, 587 category A and B), IEC 1000-4 and 1000-5	
K-Factor Rating	K-13 (other ratings are available upon request)	
Environmental		
Audible Noise	Complies with NEMA requirements	
Ambient Temperature	Operating 0°C to 40°C; Storage 0°C to 85°C	
Operating Humidity	95% relative (non-condensing)	
Operating Altitude	10,000 ft maximum (full load power rating should be decreased approx 3.3% per 1000 ft of altitude about 10,000 ft)	
EMI	<0.1 gauss at a distance of 3 ft	
Mechanical		
Line Cord Receptacles	0.125 - 1 kVA, 120 V	6' line cord with NEMA 5-15P plug and one NEMA 5-15R duplex receptacle
	1.8 kVA, 120 V	6' line cord with NEMA L5-20P twist-lock plug and one NEMA 5-20R duplex receptacle
	2.4 kVA, 120 V	6' line cord with NEMA L5-30P twist-lock plug and one NEMA 5-20R duplex receptacle
	0.125 - 2.4 kVA, 230 V	6' line cord with European plug and side ground duplex receptacle
Hardwired	Field wired terminal block	
Safety Agency Approvals	UL544 and UL1012, UL1561 and cUL (Canadian standard C22.2 No 125) (60 Hz models)(60 Hz models); CE mark (50 Hz models) Complies with Part 15 Subpart J of FCC rules for a Class A computing device	
Load Regulation	±3% or less from no load to full load at unity power factor	
Harmonic Distortion	1% maximum	
Electro-Magnetic Interference	<0.2 gauss @ 3 feet	
Warranty	6 years	

Model Selection Guide

Model	Rating kVA	Input VAC	Output VAC	Dimensions H x W x D, in (cm)	Weight (lbs/kg)
Single Phase Line / Cord Receptacle Models					
Major1IT125VA-120	0.125	120	120	4.75 x 7.4 x 7.6" (12.1 x 19.8 x 19.3)	13 lbs (5.9 kg)
Major1IT125VA-230	0.125	230	230	4.75 x 7.4 x 7.8" (12.1 x 19.8 x 19.8)	14 lbs (6.4 kg)
Major1IT250VA-120	0.25	120	120	4.75 x 7.4 x 8.0" (12.1 x 19.8 x 20.3)	15 lbs (6.8 kg)
Major1IT250VA-230	0.25	230	230	4.75 x 7.4 x 8.3" (12.1 x 19.8 x 21.1)	16 lbs (7.3 kg)
Major1IT500VA-120	0.5	120	120	4.75 x 7.4 x 9.0" (12.1 x 19.8 x 22.9)	21 lbs (9.5 kg)
Major1IT500VA-230	0.5	230	230	4.75 x 7.4 x 9.5" (12.1 x 19.8 x 24.1)	23 lbs (10.4 kg)
Major1IT750VA-120	0.75	120	120	4.75 x 7.4 x 9.7" (12.1 x 19.8 x 24.6)	25 lbs (11.3kg)
Major1IT750VA-230	0.75	230	230	4.75 x 7.4 x 10.3" (12.1 x 19.8 x 26.2)	27 lbs (12.2kg)
Major1IT1K-120	1	120	120	6.6 x 8.4 x 9.7" (16.8 x 21.3 x 24.6)	32 lbs (14.5 kg)
Major1IT1K-230	1	230	230	6.6 x 8.4 x 10.5" (16.8 x 21.3 x 26.7)	36 lbs (16.3 kg)
Major1IT1.8K-120	1.8	120	120	6.6 x 8.4 x 10.5" (16.8 x 21.3 x 26.7)	42 lbs (19.1 kg)
Major1IT1.8K-230	1.8	230	230	6.6 x 8.4 x 11.0" (16.8 x 21.3 x 27.9)	47 lbs (21.3 kg)
Major1IT2.4K-120	2.4	120	120	6.6 x 8.4 x 10.9" (16.8 x 21.3 x 27.7)	48 lbs (21.8 kg)
Major1IT2.4K-230	2.4	230	230	6.6 x 8.4 x 11.5" (16.8 x 21.3 x 29.2)	56 lbs (25.4 kg)

Model	Rating kVA	Input VAC	Output VAC	Dimensions H x W x D, in (cm)	Weight (lbs/kg)
Single Phase Terminal Style Models					
Major1IT125VA-120/240	0.125	120/240	120/240	4.75 x 7.4 x 7.9" (12.1 x 19.8 x 19.3)	14 lbs (6.4 kg)
Major1IT250VA-120/240	0.25	120/240	120/240	4.75 x 7.4 x 8.3" (12.1 x 19.8 x 21.1)	16 lbs (7.3 kg)
Major1IT500VA-120/240	0.5	120/240	120/240	4.75 x 7.4 x 9.4" (12.1 x 19.8 x 23.9)	23 lbs (10.4 kg)
Major1IT750VA-120/240	0.75	120/240	120/240	4.75 x 7.4 x 10.3" (12.1 x 19.8 x 26.2)	27 lbs (12.2 kg)
Major1IT1K-120/240	1	120/240	120/240	6.6 x 8.4 x 10.0" (16.8 x 21.3 x 25.4)	36 lbs (16.3 kg)
Major1IT1.8K-120/240	1.8	120/240	120/240	6.6 x 8.4 x 11.0" (16.8 x 21.3 x 27.9)	46 lbs (20.1 kg)
Major1IT2.5K-120/240	2.5	120/240	120/240	6.6 x 8.4 x 11.8" (16.8 x 21.3 x 30.0)	55 lbs (25.0 kg)
Major1IT5K-120/240	5	120/240	120/240	6.6 x 8.4 x 15.0" (16.8 x 21.3 x 38.1)	93 lbs (42.2 kg)
Major1IT5K-240/480	5	240/480	240/480	6.6 x 8.4 x 15.0" (16.8 x 21.3 x 38.1)	94 lbs (42.6 kg)
Major1IT7.5K-120/240	7.5	120/240	120/240	6.6 x 8.4 x 17.5" (16.8 x 21.3 x 44.4)	126 lbs (57.2 kg)
Major1IT7.5-240/480	7.5	240/480	240/480	6.6 x 8.4 x 18.0" (16.8 x 21.3 x 45.7)	130 lbs (59.0 kg)
Major1IT10K-120/240	10	120/240	120/240	13.1 x 12.2 x 22.2" (33.3 x 31 x 56.4)	250 lbs (113.4 kg)
Major1IT10K-240/480	10	240/480	240/480	13.1 x 12.2 x 22.2" (33.3 x 31 x 56.4)	250 lbs (113.4 kg)
Major1IT15K-120/240	15	120/240	120/240	13.1 x 12.2 x 23.5" (33.3 x 31 x 59.7)	320 lbs (145.2 kg)
Major1IT15K-240/480	15	240/480	240/480	13.1 x 12.2 x 23.5" (33.3 x 31 x 59.7)	320 lbs (145.2 kg)
Major1IT20K-120/240	20	120/240	120/240	13.1 x 12.2 x 24.7" (33.3 x 31 x 62.7)	367 lbs (166.5 kg)
Major1IT20K-240/480	20	240/480	240/480	13.1 x 12.2 x 24.7" (33.3 x 31 x 62.7)	367 lbs (166.5 kg)