ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

**Artisan Technology Group**
(217) 352-9330 | sales@artisantg.com | artisantg.com

**Full-service, independent repair center**
with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**
along with credit for buybacks and trade-ins.

**Custom engineering**
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

**Expert team | Trust guarantee | 100% satisfaction**

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Emerson / Control Concepts Isatrol IC+107* at our website: *Click HERE*

# Filtering/Line Conditioning — Product Selection Guide

- Find your application in the left column.
- Then look across for the appropriate product.

| | PRODUCTS | | | |
|---|---|---|---|---|
| **APPLICATIONS** | **Islatrol® IE Series** | **Islatrol® IC+/LRIC+ Series** | **Islatrol® SP-6TVN Series** | **Islatrol® RM Series** |
| Programmable Logic Controllers |  |  | | |
| Control Panels (AC Power) |  |  | | |
| Various OEM Equipment |  |  | | |
| Home Entertainment/Office | | |  | |
| AC Rack Equipment | | | |  |




UL® 1449

# Islatrol® IE Series

## *Active Tracking Filter®*

Series connected DIN/flange mount high-frequency noise filter/surge suppressor. Ideal applications include critical industrial loads drawing up to 20 Amps of continuous current. Typical applications include any microprocessor-based products, including industrial PLCs, OEM applications, and motion control systems.

## Features

- Multi-staged design, combining a unique hybrid clamping network with the active tracking technology of the Islatrol® family
- Surge current capacity — 45,000 Amps
- Transient protection in all modes: line to neutral, line to ground, and neutral to ground
- LED status indication and form C contact for remote indication
- DIN mountable enclosure
- UL 1449, 1283, CUL recognized, CE
- 10 year warranty

## Performance Technical Specifications

| **UL 1449 Surge Voltage Rating** | |
|---|---|
| 120V Normal Mode | 330 Volts |
| 120V Common Mode | 400 Volts |
| 240V Normal Mode | 600 Volts |
| 240V Common Mode | 800 Volts |
| **Peak Surge Current Capability (8 x 20 µs)** | |
| Line to Neutral | 15,000 Amps |
| Line to Ground | 15,000 Amps |
| Neutral to Ground | 15,000 Amps |
| Total | 45,000 Amps |
| **Frequency Response (Forward-Reverse)** | |
| Normal Mode | 100 kHz to 50 MHz - 90 dB Min |
| Common Mode | 5 MHz to 50 MHz - 60 dB Min |
| **Typical Category A Ringwave (6 kV, 200 A, 100 kHz)** | |
| **Normal Mode/Common Mode** | |
| 3 Amp | 1 V/300 V |
| 5 Amp | 0.7 V/292 V |
| 10 Amp | 0.7 V/300 V |
| 20 Amp | 0.7 V/300 V |
| **Typical Category B Ringwave (6 kV, 500 A, 100 kHz)** | |
| **Normal Mode/Common Mode** | |
| 3 Amp | 178 V/300 V |
| 5 Amp | 162 V/291 V |
| 10 Amp | 153 V/300 V |
| 20 Amp | 200 V/300 V |

## General Technical Specifications

| **MCOV** | |
|---|---|
| 120 Volt | 150 VRMS |
| 240 Volt | 275 VRMS |
| Line Frequency | 47 - 63 Hz |
| Connection | Terminal |
| Mounting Type | DIN/Flange |
| Weight | < 3 lbs |
| **Response Time** | |
| Normal Mode | < 0.5 ns |
| Common Mode | < 5 ns |
| Operating Temperature | -40°C to +45°C |
| | Derate Linearly to 60% at +70ºC |
| Operating Humidity | 0% to 95% |

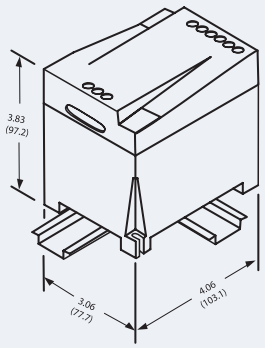
## Ordering Information

| Voltage* | Continuous Current | Model |
|---|---|---|
| 120 V | 3 Amps | IE-103 |
| 120 V | 5 Amps | IE-105 |
| 120 V | 10 Amps | IE-110 |
| 120 V | 20 Amps | IE-120 |

| Voltage* | Continuous Current | Model |
|---|---|---|
| 240 V | 3 Amps | IE-203 |
| 240 V | 5 Amps | IE-205 |
| 240 V | 10 Amps | IE-210 |
| 240 V | 20 Amps | IE-220 |

** All voltage configurations are single phase - 2 wire + gnd.*

## Dimensional Diagram

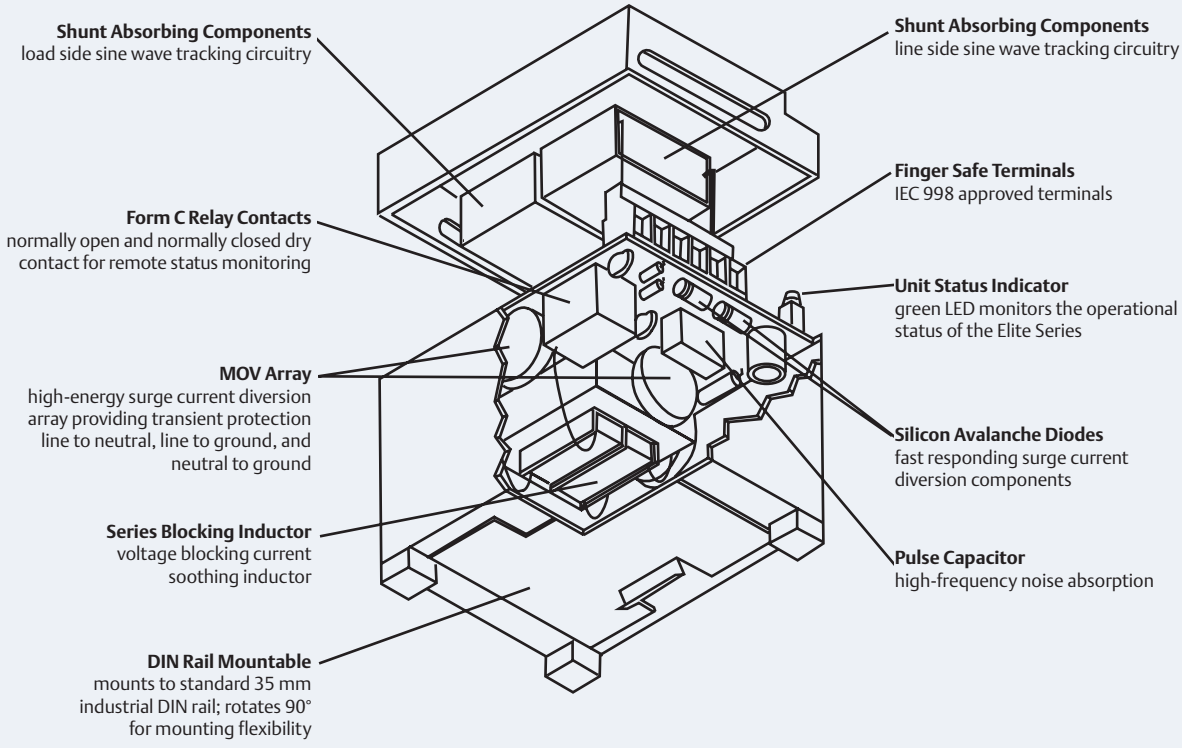



METRIC DIMENSIONS IN mm
(SHOWN IN PARENTHESIS)

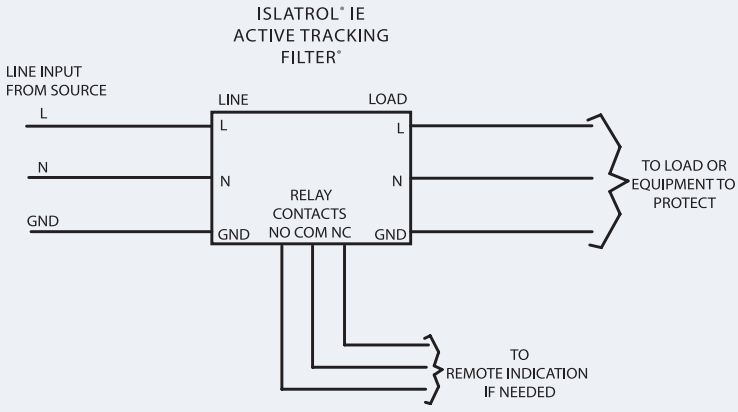
# Islatrol® IE Series

*Active Tracking Filter®*

## System Design




## Connection Diagram






# Islatrol® IC+/LRIC+ Series

## *Active Tracking Filter®*

Series connected high-frequency noise filter with transient protection. Offers the flexibility of either receptacle/line cord connection or hard-wired connection to critical loads (up to 30 Amperes). Applications include industrial or office equipment, computers placed in harsh environments.

UL® 1283

### Features

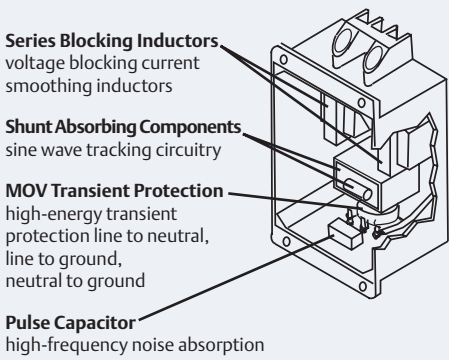
- Typically reduces normal mode transients to +/-2 volts
- Surge current capacity — 45,000 Amps
- Transient protection in all modes: line to neutral, line to ground, and neutral to ground
- LED power indication
- UL 1283, CSA recognized
- 10 year warranty

| **MCOV** | |
|---|---|
| 120 Volt | 150 VRMS |
| 240 Volt | 275 VRMS |
| **Line Frequency** | 47 - 63 Hz |
| **Response Time** | |
| Normal Mode | < 0.5 ns |
| Common Mode | < 5 ns |
| **Operating Temperature** | |
| | -40°C to +45°C at Full Load<br>Derate Linearly to 60% at +70°C |
| **Operating Humidity** | 0% to 95% |
| **Peak Surge Current Capability (8 x 20 µs)** | |
| Line to Neutral | 15,000 Amps |
| Line to Ground | 15,000 Amps |
| Neutral to Ground | 15,000 Amps |
| **Load Surge Current Rating** | |
| 10 mSec | 5 x Nominal |
| 1 sec | 3 x Nominal |
| 10 sec | 2 x Nominal |
| **Packaging** | |
| • High Impact Plastic Case<br>• Vacuum Impregnated Magnetics<br>• Epoxy Encapsulated | |
| **Frequency Response (Forward-Reverse)** | |
| Normal Mode | 100 kHz to 50 MHz - 90 dB Min |
| Common Mode | 5 MHz to 50 MHz - 60 dB Min |

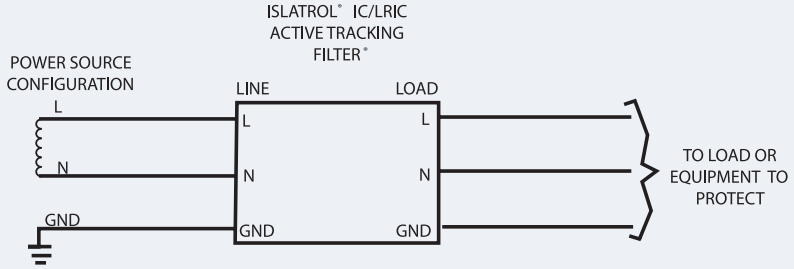
| **Typical Category A Ringwave (6 kV, 200 A, 100 kHz)** | | |
|---|---|---|
| Model | Normal | Common |
| IC+102 / LRIC+102 | 1.0 / 0.9 | 302 / 287 |
| IC+105 / LRIC+105 | 0.7 / 0.8 | 292 / 307 |
| IC+107 / LRIC+107 | 0.7 / 0.7 | 302 / 293 |
| IC+115 / LRIC+115 | 0.7 / 0.7 | 304 / 306 |
| IC+130 / IC+202 | 0.5 / 1.1 | 306 / 536 |
| IC+205 / IC+207 | 1.5 / 0.8 | 628 / 616 |
| IC+215 / IC+230 | 0.6 / 0.9 | 572 / 566 |
| **Typical Category B Ringwave (6 kV, 500 A, 100 kHz)** | | |
| Model | Normal | Common |
| IC+102 / LRIC+102 | 178 / 188 | 302 / 285 |
| IC+105 / LRIC+105 | 162 / 191 | 291 / 300 |
| IC+107 / LRIC+107 | 173 / 190 | 300 / 298 |
| IC+115 / LRIC+115 | 153 / 149 | 307 / 309 |
| IC+130 / IC+202 | 241 / 302 | 299 / 532 |
| IC+205 / IC+207 | 378 / 336 | 594 / 596 |
| IC+215 / IC+230 | 272 / 342 | 548 / 578 |

*Note: All measurements in volts. IEEE test results with no AC applied. Normal mode—L1-N or L1-L2; Common mode—L-G, N-G or L1-G, L2-G.*

## System Design



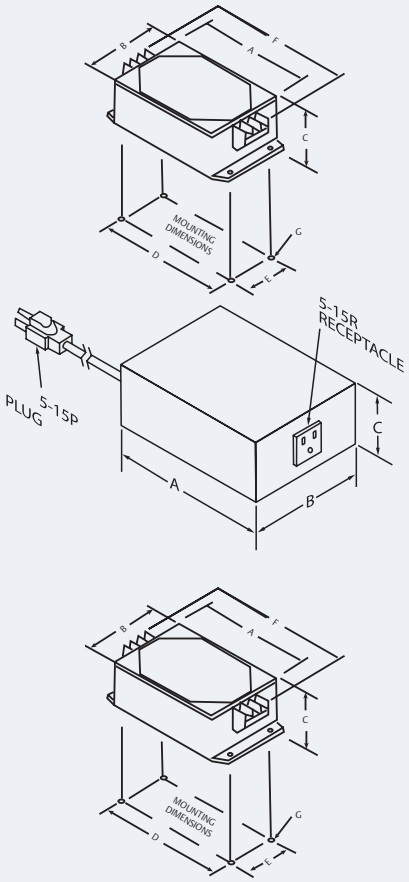

## Connection Diagram



# Islatrol® IC+/LRIC+ Series

## *Active Tracking Filter®*

### Dimensional Diagram







### Ordering Information

**120 VAC Models with barrier strip at input and output/with wire leads at input and output (WL)**

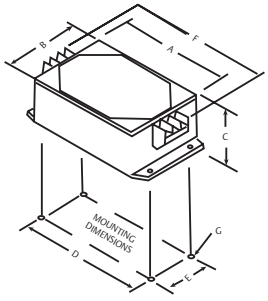
| Model | Rated Output (Amps) | Case Dimensions (In) A x B x C | Mounting Flange Dimensions (In) D x E x F x G | Screw Size | Weight (lbs) |
|---|---|---|---|---|---|
| IC+102 / IC+102WL | 2.5 | 4 x 2.88 x 1.81 | 4.38 x 2.12 x 5.31 x 0.19 | #6 | 1.0 |
| IC+105 / IC+105WL | 5.0 | 4 x 2.88 x 1.81 | 4.38 x 2.12 x 5.31 x 0.19 | #6 | 1.3 |
| IC+107 / IC+107WL | 7.5 | 4.75 x 4.75 x 2.35 | 5.25 x 3.50 x 6.25 x 0.19 | #6 | 2.0 |
| IC+115 / IC+115WL | 15 | 6.25 x 4.75 x 2.35 | 6.75 x 3.50 x 7.75 x 0.19 | #8 | 3.5 |
| IC+130 / IC+130WL | 30 | 7.75 x 4.75 x 2.35 | 8.25 x 3.50 x 9.00 x 0.19 | #8 | 6.0 |

**120 VAC Models with 5 foot line cord and single NEMA 5-15 receptacle**

| Model | Rated Output (Amps) | Case Dimensions (In) A x B x C | Mounting Flange Dimensions (In) D x E x F x G | Screw Size | Weight (lbs) |
|---|---|---|---|---|---|
| LRIC+102 | 2.5 | 4.5 x 3.0 x 1.88 | N/A | N/A | 1.3 |
| LRIC+105 | 5.0 | 4.5 x 4.5 x 2.38 | N/A | N/A | 2.0 |
| LRIC+107 | 7.5 | 6.0 x 4.5 x 2.38 | N/A | N/A | 2.3 |
| LRIC+115 | 15 | 7.5 x 4.5 x 2.38 | N/A | N/A | 4.0 |

**240 VAC Models with barrier strip at input and output/with wire leads at input and output (WL)**

| Model | Rated Output (Amps) | Case Dimensions (In) A x B x C | Mounting Flange Dimensions (In) D x E x F x G | Screw Size | Weight (lbs) |
|---|---|---|---|---|---|
| IC+202 / IC+202WL | 2.5 | 4 x 2.88 x 1.81 | 4.38 x 2.12 x 5.31 x 0.19 | #6 | 1.3 |
| IC+205 / IC+205WL | 5.0 | 4.75 x 4.75 x 2.35 | 5.25 x 3.50 x 6.25 x 0.19 | #6 | 2.0 |
| IC+207 / IC+207WL | 7.5 | 6.25 x 4.75 x 2.35 | 6.75 x 3.50 x 7.75 x 0.19 | #8 | 3.3 |
| IC+215 / IC+215WL | 15 | 7.75 x 4.75 x 2.35 | 8.25 x 3.50 x 9.00 x 0.19 | #8 | 5.8 |
| IC+230 / IC+230WL | 30 | 7.75 x 4.75 x 2.35 | 8.25 x 3.50 x 9.00 x 0.19 | #8 | 6.0 |




# Islatrol® E Series

## *Active Tracking Filter® for DC Voltages*

Provides continuous sine wave Active Tracking® filtration, normal mode (line to line or line to neutral) for protection from spikes, transients, and noise on AC power line. Available in either hardwired, printed circuit board mount, wire lead mount or single receptacle/line cord configurations, single phase or three phase, 50/60 Hz.

### Ordering Information

**35 VDC, printed circuit board mount or with wire leads at input and output**

*(Add "WL" suffix in place of "PC" suffix.)*

| Model Number | Amperes | Weight (lbs) |
|---|---|---|
| E-025PC | 0.25 | 1 |
| E-05PC | 0.50 | 1 |
| E-1PC | 1.00 | 1 |

**100 VDC with barrier strips at input and output**

| Model Number | Amperes | Weight (lbs) |
|---|---|---|
| E-1 (only 35 VDC) | 1.0 | 3 |
| E-2 | 2.5 | 3 |
| E-5 | 5.0 | 3 |
| E-7 | 7.5 | 3 |
| E-15 | 15.0 | 9 |
| E-30 | 30.0 | 9 |
| E-50 | 50.0 | 10 |
| E-100 | 100.0 | 15 |

*Islatrol® Active Tracking Filters® carry a 10 year warranty*




**Repositionable Outlets**

UL® 1449

# Islatrol® — SP-6TVN

## *Industrial Strength Surge Suppression (Series)*

The Islatrol® SP-6TVN is an industrial-strength surge suppression/filtering device that plugs into a standard duplex receptacle. It features uniquely designed repositionable outlets for easy installation behind desks and other furniture. It protects your sensitive home or office equipment, including TVs, home theaters, satellite dishes, computers, printers, copiers, and fax machines, from damaging power disturbances traveling through your wiring into your electrical outlets.

### Features

- Plugs into standard 120 V, 15 Amp electrical outlet
- Total peak surge current capacity of 39,000 Amps
- Cables for telephone, video, and data connections
- Repositionable outlets rotate to accommodate available space
- Perfect for tight spaces, behind furniture and appliances
- Intelligent monitoring against improper wiring/grounding
- 60 dB maximum high frequency
- Operational indicator lamp
- 5 year limited warranty

## General Technical Specifications

| AC Power Protection | |
|---|---|
| Nominal Operating Voltage | 120 VAC, Single Phase |
| Operating Voltage Range | 120 VAC +/- 10% |
| Operating Frequency Range | 47 — 63 Hz |
| Rated Output (Amps) | 15 Amperes |
| ANSI/IEEE C62.41 Category | Category A & B |
| Connection Type | (6) 5-15R Receptacles and 5-15P Plug |
| Phase Configuration | 2 Wire + Gnd |
| Size | 7.5 x 4.75 x 1.75 (Inches) |
| Enclosure | High Impact Plastic |
| Weight | 2.0 lbs (0.9 kgs) |
| Modes Of Protection | L — N, L — G, N — G |
| Indication of Suppression Status | Status Indicator |
| Response Time | < .5 ns Normal Mode |
| Certifications | UL 1449 Listed |
| Warranty | 5 Year |

| Maximum Continuous Operating Voltage (MCOV) | |
|---|---|
| Line to Neutral | 130 VAC |

| Peak Surge Current (8 x 20 ms) | |
|---|---|
| Line to Neutral | 13,000 Amps |
| Line to Ground | 13,000 Amps |
| Neutral to Ground | 13,000 Amps |
| Total | 39,000 Amps |

| ANSI/IEEE C62.41 Cat A Ringwave (6 kV, 200 A, 100 kHz) | |
|---|---|
| Normal Mode | 265 V |
| Common Mode | 290 V |

| ANSI/IEEE C62.41 Cat B Ringwave (6 kV, 500 A, 100 kHz) | |
|---|---|
| Normal Mode | 275 V |
| Common Mode | 290 V |

| Frequency Response | |
|---|---|
| Normal Mode | 60 dB Maximum, forward/reverse, 100 kHz to 50 MHz |
| Common Mode | 40 dB Maximum, forward/reverse, 5 MHz to 50 MHz |

**Low Voltage Protection**

| | Video 1 & 2 | Phone | Network |
|---|---|---|---|
| Connection Type | Type "F" | Type RJ-11 | Type RJ-45 |
| Cables Provided | 6' (2x) Type "F" 6' Ends | 6' RJ-11 Male 6' Ends | 6' RJ-45 Male Ends |
| Peak Surge Current | 5 kA (8 x 20 µs) | 2 kA (10 x 1000 µs) | 3 kA (8 x 20 µs) |
| Capacitance | <12 pf | <50 pf | <70 pf |
| Protection Level | L-G | T-R, T-G, R-G | L-G (8 Lines) |
| Clamping Voltage (DC) | 145 V | 270-350 V | 30 V |
| Attenuation | 1 dB @ 2 Ghz | N/A | N/A |



Model shown: RM-115-10 RM

# Islatrol® — RM Series

## *120 VAC Rackmount*

This line of AC surge protectors is ideal for protecting the power feeding valuable rack equipment. All models provide ten protected outlets on the back and two protected convenience outlets on the front. This series provides 40,000 Amps of surge protection and up to 60 dB of high-frequency noise filtering. Status LEDs indicate the correct power is coming to the unit, whether the unit is properly grounded and whether the surge components are still in tact. Units are available with an optional digital meter, mounted on the front of the unit, that will monitor the voltage, current and power of the protected equipment.

### Features

- 40 kA surge protection
- 60 dB max noise filtering
- 15 & 20 A models available
- Power, ground and surge status indicators
- Digital meter
- Optional twist lock plug
- 1 year warranty

### General Technical Specifications

| Model | Voltage | Amperage | Plug (NEMA) | Receptacles (NEMA) | Digital Meter | Locking Plug |
|---|---|---|---|---|---|---|
| RM-115-10RM | 120 V | 15 A | 5-15P | 5-15R | Yes | No |
| RM-120-10RM | 120 V | 20 A | 5-20P | 5-20R | Yes | No |
| RM-120-10RML | 120 V | 20 A | L5-20P | 5-20R | Yes | Yes |

**Rackmount AC Power Protection**

| | |
|---|---|
| Rated Voltage | 120 V |
| Rated Current | 15 A & 20 A |
| Peak Surge Current | 20 kA/mode, 40 kA/phase |
| Response Time | <5 ns |
| EMI/RFI Filtering | 60 dB Max |
| LED Indicators | Green-Power on<br>Green-Ground OK<br>Green-Surge Circuit OK |
| Digital Meter (Optional) | Voltage Amps, Watts, VA, Hz, PF, Kwh, and Clock |
| Input Power<br>15 A Models | SJT 14/3C Power Cord (15 ft) with NEMA 5-15P Plug |
| 20A Models | SJT 12/3C Power Cord (15 ft) with NEMA 5-20P Plug<br>NEMA L5-20P Plug- Optional |
| Output Receptacles<br>15A Models | Front- (2) NEMA 5-15R<br>Back- (10) NEMA 5-15R |
| 20A Models | Front- (2) NEMA 5-20R<br>Back- (10) NEMA 5-20R |
| Thermal Protection | Thermal Protected MOVs |
| Overcurrent Protection | Circuit |
| Dimensions | 1.75"H x 19"W x 3.8"D (1U) |
| Certifications | UL1449 |
| Warranty | 1 Year |

**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP