

Ultimate Surge p r o t e c t o r

Product Catalogue Rev. 7.2



Digital protection

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Ultimate Digital Surge Protectors

Tritronic Electronics Limited (TEL) is proud to introduce to you, its latest products. The Ultimate line of Digital Surge Protectors has been proven and tested by many for several years, with our flagship models approved by the Bureau of Standards, Jamaica. Feedback from our customers has been positive and speaks to the quality, efficiency and durability of our products.

These latest digital Surge Protectors have provided a solution to premature failure of household appliances and industrial equipment, which in most cases are due to fluctuating (surge) voltages.

With over Twenty (20) years of experience in consumer electronics design and repair industry, TEL guarantees quality and efficient Jamaican manufactured electronic products.

Should you be interested in having a detailed demonstration of the Ultimate Digital Surge Protectors, our specialists are ready to assist as well as answer any questions you may have.

Social Links:

<https://www.facebook.com/UltimateSurgeprotector>

<https://www.instagram.com/ultimatesurgeprotector/>

<https://www.tritroniclimited.com>

N Series Ultimate Intelligent Surge Protector



Our flagship, number one rated, the best in its class, approved by the Bureau of Standards, Jamaica. Model N Series intelligent surge protectors. These protectors are designed to protect small appliances and equipment from surge voltages and abnormal frequencies. With its voltage monitoring, frequency monitoring and zero voltage start up circuits, makes the N Series Protector ideal for protecting inverter refrigerators, flat screen televisions, computer system, audio systems and other sensitive electronics equipment.



Intelligent protection is achieved using a high speed digital microprocessor. The clock speed of the microprocessor enables the protector to monitor the input voltage and frequency at 1 MHz (Mega hertz), which is approximately one million (1,000,000) times faster than the voltage that is been monitored.

In addition to its electronics features, Model N Series Ultimate Surge Protectors are built using a high quality plastic enclosure which is fire retardant, none conductive and mechanically strong.

Applications: Inverter Refrigerators, Freezers, Televisions, Computer System, Printers, Home Theater System, Surveillance System, UPS, and other Sensitive Electronic Equipment.

Features: Fast reaction time, Zero start-up voltage detect circuit, Non-stop voltage monitoring circuit, Frequency monitoring circuit, LED status indicator, Audio fault indicator, 90° male plug for more convenience, High quality plastic enclosure, and Two (2) years warranty.

Model: FG120N25

Model: AE120N25

Delay on time	5 minutes	Delay on time	10 seconds
Low voltage trip point	93VAC ± 1	Low voltage trip point	93VAC ± 1
High voltage trip point	128VAC ± 2	High voltage trip point	128VAC ± 2
Reaction time (trip)	0.01-0.05 sec	Reaction time (trip)	0.01-0.05 sec.
Operation temperature	0°C to 110°C	Operation temperature	0°C to 110°C
Power consumption	0.0067kw	Power consumption	0.0067kw
Input voltage	120VAC,50/60 Hz	Input voltage	120VAC,50/60Hz
Output current	20 Amps	Output current	20 Amps
Circuit Protection	Fast blow fuse type	Circuit Protection	Fast blow fuse type
Number of outlet	1	Number of outlet	4
Dimension	4.50 * 3.50 * 1.25in 114.3 * 88.8 * 31.75mm	Dimension	4.50 * 3.50 * 1.25in 114.3 * 88.8 * 31.75mm
Average weight	0.48 lbs.	Average weight	0.58 lbs.

NB. Model AE120N25 should NOT be use to protect refrigerators, freezers and other compressor type equipment because the delay on time is too short. For refrigerator and other compressor type equipment model FG120N25 is recommended.

SE120N25

SE120N25 Ultimate Digital Surge Protector



This uniquely designed modular type digital surge protector (SE120N25) is superior to all in its class. Providing more convenience, more flexibility and is more affordable.

When plugged directly into your socket outlet, Model SE120N25 will provide a wide range of protection for your appliances and equipment, including protection from abnormal voltages, abnormal frequencies and high current start-up.

Model SE120N25 digital surge protector is ideal for protecting computers systems, flat screen televisions, small printers, security systems, audio systems, UPS and many more sensitive electronics equipment.

Intelligent protection is achieved using a high speed digital microprocessor with a clock speed of 1 MHz (One Mega hertz), which is approximately one million (1,000,000) times faster than the voltage that is been monitored.

In addition to its electronics features, Model SE120N25 Protectors are built using a high quality plastic enclosure which is fire retardant, none conductive and mechanically strong.

Applications: Computer Systems, Flat Screen Televisions, Small Printers, Security Systems, Audio Systems, UPS, and many more Sensitive Electronic Equipment.

Features: Modular type design, Zero start-up voltage detect circuit, Non-stop voltage monitoring circuit, Frequency monitoring circuit, LED status indicator, Built in plug receptacle, High quality plastic enclosure, and Two (2) years warranty.

Model: SE120N25

Delay on time	10 Seconds
Low voltage trip point	93VAC \pm 1
High voltage trip point	128VAC \pm 2
Reaction time (trip)	0.01-0.05 sec
Operation temperature	0°C to 110°C
Power consumption	0.0065kw
Input voltage	120VAC, 50/60 Hz
Output current	20 Amps
Circuit Protection	Fast blow fuse type
Number of outlet	2
Dimension	4.00 * 1.75 * 1.27in / 101.60 * 44.45 * 32.26mm
Average weight	0.17 lbs.

NB. Model SE120N25 should NOT be use to protect refrigerators, freezers and other compressor type equipment because the delay on time (10 seconds) is too short.

IP Series Ultimate Surge Protector Digital module

Designed to protect sensitive electronics equipment from abnormal high and low voltages. In addition to its voltage protection capabilities, the IP Series (Model: IP13M120 ONLY) protector also monitors the wiring to your equipment and will indicate by means of its onboard LED display, if a wiring or ground fault has occurred. The dual start-up timer mode of the IP surge protectors make them also suitable for small to medium size compressor base equipment like inverter air conditioners, refrigerators, coolers and freezers.

Intelligent protection is achieved using a high speed digital microprocessor. The clock speed of the microprocessor enable the Ultimate Surge Protectors to monitor the input voltage and wiring fault at 1Mhz (Mega Hertz), which is approximately one million (1,000,000) times faster than the input AC voltage being monitored. Model IP Series protectors are built using a high quality plastic enclosure, which is fire retardant, none conductive and mechanically strong.



Applications: Security system, Electronic Gate Opener, Fire Alarm System, Inverter Air Conditioner (NOT EXCEEDING 10 AMPS), Industrial Machine Control Circuit, Pump Control Circuit, PLC (programmable logic control), Power Supplies, Display Monitors, Refrigerators, Medical Equipment and other Sensitive Electronic Equipment.

Features: Wiring fault detection (IP13M120 ONLY), Non-stop voltage monitoring, LED status indicator, Dual timer, Quick connect screw terminals, Small compact size, Easy to mount high quality plastic enclosure and One (1) year warranty.

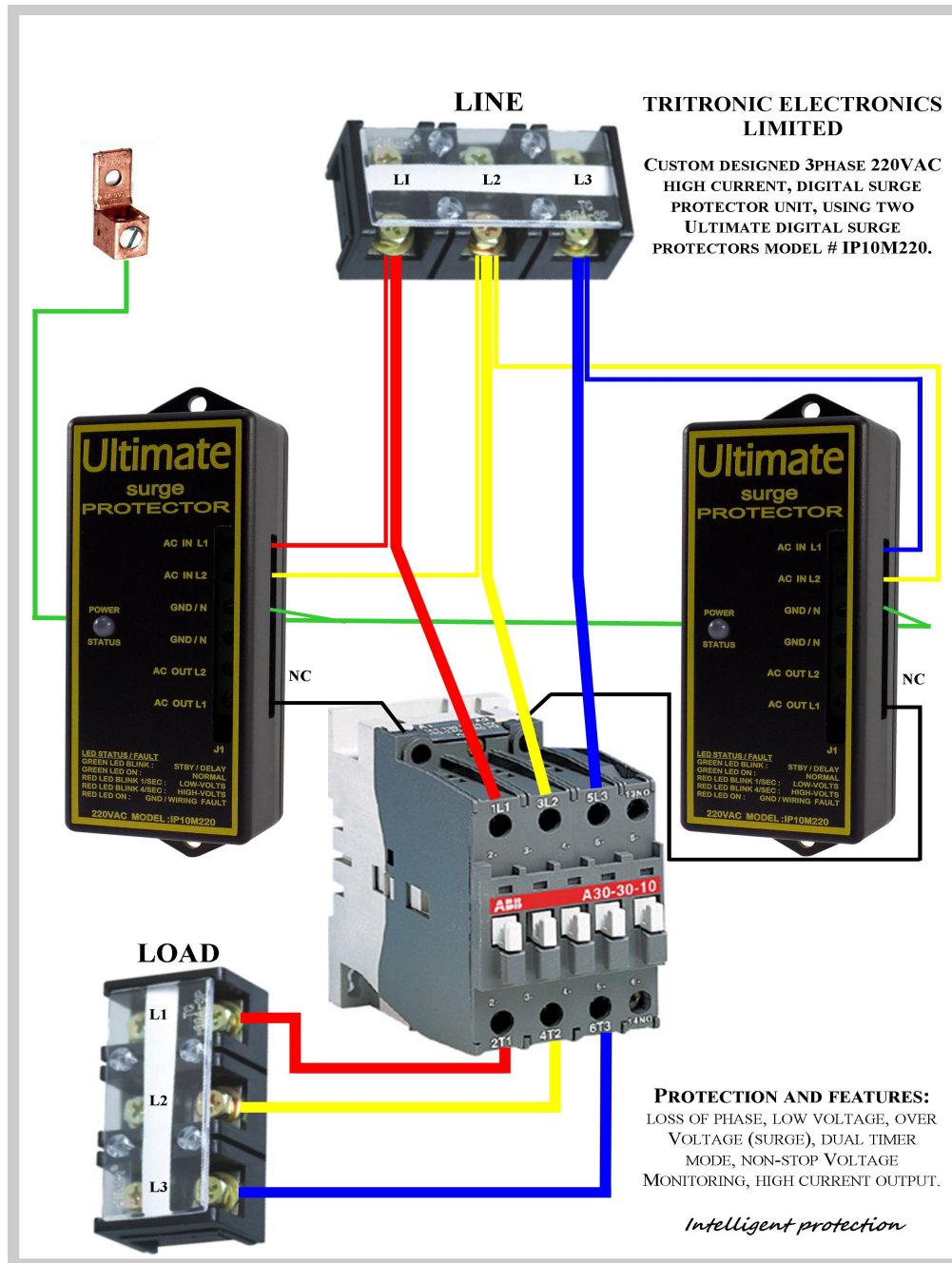
Model: IP13M120

Model: IP10M220

Delay on time	10 seconds / 5 minutes	Delay on time	10 seconds / 5 minutes
Low voltage trip point	93VAC ± 1	Low voltage trip point	190VAC ± 3
High voltage trip point	128VAC ± 2	High voltage trip point	272VAC ± 3
Reaction time (trip)	0.01-0.05 sec	Reaction time (trip)	0.01-0.05 sec.
Operation temperature	0°C to 110°C	Operation temperature	0°C to 110°C
Power consumption	0.014kw	Power consumption	0.0040kw
Input voltage	120VAC, 50/60 Hz	Input voltage	220VAC, 50/60Hz
Output current	15Amps	Output current (Maximum)	10Amps
Circuit Protection	Fast blow fuse type	Circuit Protection	Fast blow fuse type
Dimension	4.00 * 1.75 * 1.27in 101.60 * 44.45 * 32.26mm	Average weight	0.13 lbs.

CUSTOMIZED MODEL IP: OPTION

THREE (3) Phase setup option using IP10M220



Applications: Industrial Machines, Pump Control, Medical Equipment, Air Conditioners, Refrigerators, Freezers and other sensitive Equipment.

Features: NB. See detail features using IP10M220 on page 5.

IP35M220

IP Ultimate Surge Protector Smart module

Designed to protect Inverter Air-conditioner and other sensitive electronics equipment. This super sensitive, digital surge protector module, will ensure that your equipment and appliances are protected from abnormal high and low voltage conditions. The dual current (selectable) mode of this IP smart module surge protector makes it ideal for small to large size appliances and equipment. This smart module is also equipped with a digital over-current protection circuit which will protect your equipment and installation from a short circuit condition. The multi-color status LED will indicate if a fault have occurred.

Intelligent protection is achieved using a high speed digital microprocessor. The clock speed of the microprocessor enable the Ultimate Surge Protectors to monitor the input voltage and over-current limit at a frequency of 1 MHz (Mega Hertz), which is approximately one million (1,000,000) times faster than the input AC voltage been monitored. Model IP Series protectors are built using a high quality plastic enclosure, which is fire retardant, none conductive and mechanically strong.



Applications: Inverter Air Conditioner, Refrigerator, Ice Makers, Power Supplies, UPS, Medical Equipment Industrial Equipment and other Sensitive Electronic Equipment.

Features: Over-current protection, non-stop voltage monitoring, Dual current mode switch, LED status indicator, Quick connect screw terminals, Small compact size, Easy to mount high quality plastic enclosure and One (1) year warranty.

Model: IP35M220

Delay on time	30 seconds
Low voltage trip point	190VAC \pm 3
High voltage trip point	272VAC \pm 3
Reaction time (abnormal voltage trip)	0.01-0.05 sec.
Operation temperature	0°C to 110°C
Power consumption	0.0045kw
Input voltage	220VAC,50/60Hz
Output operating current	20 amp / 30amp Selectable (switch)
Circuit protection (electronic trip)	Over current trip time: 0.3 sec.
Dimension	4.00 * 2.19 * 1.49in / 101.60 * 55.63 * 37.85mm
Average weight	0.34 lbs.

For installation option, visit: <https://youtu.be/eXdYMV7HBpg>

WP Series Ultimate Surge Protector Digital PLUS



The WP Series are designed using the latest digital technologies. These surge protectors comes with a high-resolution LCD display with backlight on/off capability, which is used to show current and voltage usage. The zero voltage detect start-up feature, constant voltage and frequency monitoring circuit, high output current and dual start-up timer mode make these protectors the best in its class.

Intelligent protection is achieved using a high speed digital microprocessor. The clock speed of the microprocessor enables the protector to monitor the input voltage and frequencies at 1Mhz (Mega Hertz), which is approximately one million (1,000,000) times faster than the input AC voltage been monitored.

The WP Series Ultimate Surge Protectors are built using a high quality plastic enclosure, which is fire retardant , none conductive and mechanically strong.

Applications: Commercial printers, Inverter Air Conditioners, UPS, Pump Control, Industrial Equipment, Medical Equipment, Kitchen Equipment, Inverter Refrigerators, Freezers and other sensitive Equipment.

Features: High resolution LCD display, Dual start-up timer mode, Zero voltage detect start-up control, voltage and frequency protection, Quick connect screw terminals, High quality plastic enclosure and One (1) year warranty.

Option models: *Water resistant models **WP120Q40E** and **WP220Q40E** are built with a specially designed outdoor enclosure, a internal master switch. NB: No LCD Display.

Model: WP120Q40

Model: WP220Q40

Delay on time	10 seconds / 5 minutes	Delay on time	10 seconds / 5 minutes
Low voltage trip point	93VAC ± 1	Low voltage trip point	190VAC ± 3
High voltage trip point	128VAC ± 2	High voltage trip point	250VAC± 3 or 272VAC ± 3
Reaction time (trip)	0.01-0.05 sec	Reaction time (trip)	0.01-0.05 sec.
Operation temperature	0°C to 110°C	Operation temperature	0°C to 110°C
Power consumption	0.018kw	Power consumption	0.0086kw
Input voltage	120VAC,50/60 Hz 1PH	Input voltage	220VAC,50/60Hz/1PH,2PH
Output current	40 Amps	Output current	40 Amps
Circuit Protection	Fuse	Circuit Protection	Fuse
Dimension	7.87 * 3.93 * 2.75in 199.90 * 99.82 * 69.85mm	Average weight	1.5 lbs.

CUSTOMIZED MODEL OPTIONS

Setup option using WP series protectors

**WORLD PLUG, TYPE D OUTLET
UNITED KINGDOM, OUTLET**

**WORLD PLUG, TYPE D PLUG
UK ROUND 3 PINS PLUG**

**STANDARD 220VAC, TYPE PLUG
STANDARD 120VAC, PLUG**

**120 VAC RECEPTACLE, OUTLET
220 VAC RECEPTACLE, OUTLET**

TRITRONIC ELECTRONICS LIMITED

**ADDITIONAL SETUP OPTION FOR: STOVES,
PRINTERS, MICRO-WAVE OVENS, MACHINES
AND OTHER EQUIPMENT AND APPLIANCES
USING WP 120Q40 AND WP220Q40
MODEL DIGITAL SURGE
PROTECTORS**

Intelligent protection

Applications and Features: See detail features using WP120Q40 and WP220Q40 on page 7.

PH Series Ultimate Three (3) Phase Surge Protector



Designed to meet the highest Industrial standard, the three (3) phase Ultimate Digital Surge Protector have a wide range of built in optional features, which includes incorrect phase protection, high and low voltage (surge) cutoff, line voltage display and dual startup timer mode.

Intelligent protection is achieved using two (2) high speed digital microprocessors. The clock speed of both microprocessors enables the protector to monitor the input voltage and

phase connection at 1 MHz (Mega Hertz), which is approximately one million (1,000,000) times faster than the input AC voltage being monitored.

The PH Series Ultimate Digital Surge Protectors are built using a high quality plastic enclosure, which is fire retardant, none conductive and mechanically strong.

Applications: Industrial Machines, Pump Control, Medical Equipment, Air Conditioners, Refrigerators, Freezers and other sensitive Equipment.

Features: High resolution LCD display, Dual start-up timer mode, Optional phase rotation lockout, Voltage protection, Quick connect screw terminals, High quality plastic enclosure and One (1) year warranty.

NB. CONDITIONS APPLY

Model: PH10S220

Model: PH10S440

Delay on time	10 seconds / 5 minutes	Delay on time	10 seconds / 5 minutes
Low voltage trip point	194VAC ± 4	Low voltage trip point	396VAC ± 2
High voltage trip point	268VAC ± 4	High voltage trip point	480VAC ± 2
Reaction time (trip)	0.01-0.05 sec	Reaction time (trip)	0.01-0.05 sec.
Operation temperature	0°C to 110°C	Operation temperature	0°C to 110°C
Power consumption	0.0kw	Power consumption	0.0kw
Input voltage	220VAC,50/60 Hz/3PH	Input voltage	440VAC,50/60Hz/3PH
Output control	N/O, N/C, 8 Amps (2.2 KVA)	Output control	N/O, N/C, 8 Amps (2.2 KVA)
Circuit Protection	Fuse	Circuit Protection	Fuse
Dimension	5.55 * 3.79 * 1.25in 140.97 * 96.27 * 31.75mm	Average weight	0.50 lbs.

NB. MODEL PH10S440 IS NOT CURRENTLY AVAILABLE.

ABOUT TRITRONIC ELECTRONICS LIMITED (TEL)

Tritronic Electronics Limited has been the leading electronics product manufacturer and repair service provider in Jamaica for over Twenty Four (24) years. To date we have won Two (2) awards for the best electronics product manufactured in Jamaica. Professionals have relied on our expertise, flexibility, quality and affordable products and services.

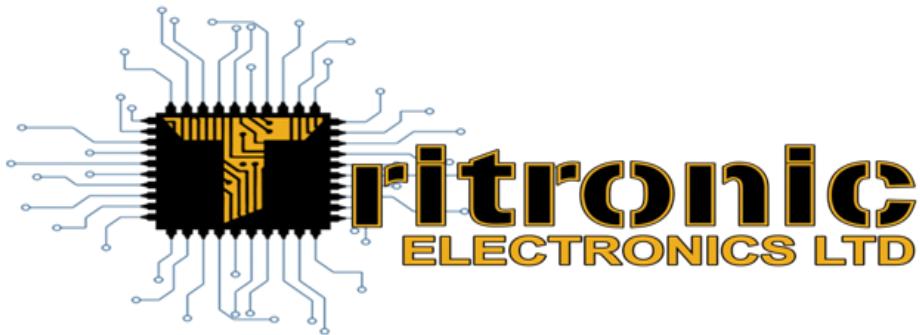
We are devoted to innovation and systematically developing new products and providing first class electronics repair services. Our main focus is in the area of electronic product design and manufacturing, industrial and domestic electronics repair services and industrial machine automation.

Our Team

We are committed to providing quality and professional service.

Our staff members are highly skilled and have years of experience. Their dedication to making sure your needs are met comes from within and is embraced and appreciated by all of our staff.

Get to know our experienced customer service representatives and engineers. They have the skills, and the desire to help you.



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