



# Ultimate surge protector

## Product Catalog



*Intelligent protection*

## **Ultimate Digital Surge Protectors**

Tritronic Electronics Limited (TEL) is proud to introduce to you, its latest products. The Ultimate line of Protectors has been proven and tested by many for over four (4) years, with our flagship models approved by the Bureau of Standards, Jamaica. Feedback from our customers has been positive and speaks to the quality and efficiency of our products.

It is our belief, that these latest digital Surge Protectors will definitely provide a solution to premature failure of household appliances and industrial equipment, which in most cases are due to fluctuating (surge) voltages.

With over seventeen (17) 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.

## 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 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 1Mhz (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:** Refrigerators, Freezers, Televisions, Computer System, Printers, Home Theater System, Surveillance System, UPS, and other Sensitive Electronic Equipment.

**Features:** Zero start-up voltage detect circuit, non-stop voltage monitoring circuit, frequency monitoring circuit, LED status indicator, 90° male plug for more convenience, high quality plastic enclosure, and two (2) years warranty. **NB. CONDITIONS APPLY**

### Model: FG120N25

### Model: AE120N25

Delay on time	5 minutes	Delay on time	10 seconds
Low voltage trip point	94VAC ± 2	Low voltage trip point	94VAC ± 2
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	0.0083kw	Power consumption	0.0083kw
Input voltage	120VAC,50/60 Hz	Input voltage	120VAC,50/60Hz
Output current	15 Amps	Output current	15Amps
Circuit Protection	Fuse	Circuit Protection	Fuse
Number of outlet	1	Number of outlet	4

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 (compressor) type equipment model **FG120N25** is recommended.

# IP13M120

# IP10M220

## 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 protectors also monitors the wiring to your equipment and will indicate by means of its onboard display LED, 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 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 been monitored. Model IP Series protectors are built using a high quality plastic enclosure, which is fire retardant, none conductive and mechanically strong.



**Applications:** Electronic Gate Opener, Fire Alarm System, 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 circuit, non-stop voltage monitoring, LED status indicator, quick connect screw terminals, Small compact size, easy to mount high quality plastic enclosure and one (1) year warranty. **NB. CONDITIONS APPLY**

### Model: IP13M120

### Model: IP10M220

Delay on time	10 seconds / 5 minutes	Delay on time	10 seconds / 5 minutes
Low voltage trip point	94VAC $\pm$ 2	Low voltage trip point	194VAC $\pm$ 2
High voltage trip point	128VAC $\pm$ 2	High voltage trip point	265VAC $\pm$ 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	0.016kw	Power consumption	0.0065kw
Input voltage	120VAC,50/60 Hz	Input voltage	220VAC,50/60Hz
Output current	13Amps	Output current	10Amps
Circuit Protection	Fuse	Circuit Protection	Fuse



# WP120Q40

# WP220Q40

## 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:** Air Conditioners, UPS, Pump Control, Industrial Equipment, Medical Equipment, Kitchen Equipment, 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. **NB. CONDITIONS APPLY**

**Option:** Water resistant models **WP120Q40E** and **WP220Q40E** are built with a specially designed outdoor enclosure, a internal master switch and 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	94VAC ± 2	Low voltage trip point	194VAC ± 2
High voltage trip point	128VAC ± 2	High voltage trip point	255VAC ± 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	0.018kw	Power consumption	0.0086kw
Input voltage	120VAC,50/60 Hz/1PH,2PH	Input voltage	220VAC,50/60Hz/1PH,2PH
Output current	40 Amps	Output current	40 Amps
Circuit Protection	Fuse	Circuit Protection	Fuse

# PH10S220

# PH10S440

## 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 1Mhz (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

## **ABOUT TRITRONIC ELECTRONICS LIMITED (TEL)**

Tritronic Electronics Limited has been the leading electronics product manufacturer and repair service provider in Jamaica for over seventeen (17) years. Professionals have relied on our expertise, flexibility, quality and affordable products and services.

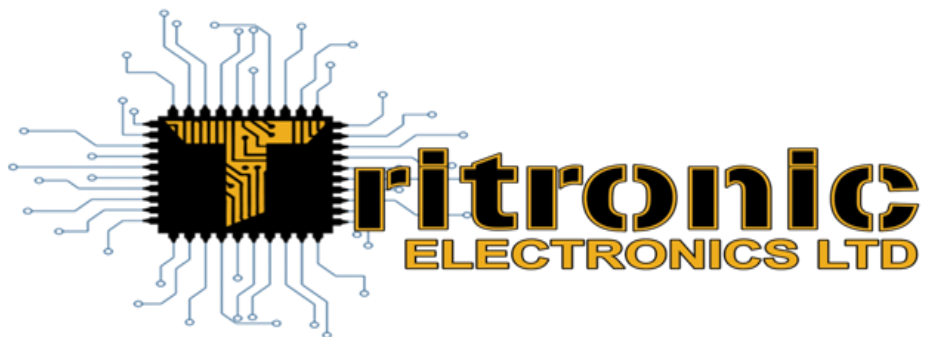
We are devoted to innovation and systematically developing new products and providing first class electronics repair services. Our main focus is in the area of electronic product design and manufacturing, industrial and domestic electronics repair services and industrial machine automation.

### **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 Technicians. They have the skills, and the desire to help you.



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