Ultimate Surge

PROTECTOR PRODUCT CATALOGUE

INTELLIGENT • DIGITAL • RELIABLE



REVISION 8

TRITRONIC ELECTRONICS LIMITED

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ABOUT THE ULTIMATE SERIES

Ultimate Digital Surge Protectors

Engineered protection for homes, businesses and industrial equipment.

Tritronic Electronics Limited (TEL) is proud to introduce the Ultimate range of Digital Surge Protectors. These products have been used and tested by customers for several years, and our flagship models have been approved by the Bureau of Standards Jamaica. Customer feedback reflects the quality, efficiency and durability of our products.

The Ultimate range is designed to help protect household appliances and industrial equipment against abnormal supply-voltage conditions that can contribute to premature equipment failure.

With 26 years of experience in consumer electronics design and repair, TEL is committed to manufacturing dependable, high-quality electronic products in Jamaica.

If you would like a detailed demonstration of the Ultimate Digital Surge Protectors, our specialists are available to assist and answer your questions.

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Ultimate Intelligent Surge Protectors

Microprocessor-controlled protection for appliances and sensitive electronic equipment.

FG120N25 | Fridge Guard



AE120N25 | Equipment



FG120N25

Recommended for refrigerators, freezers and other compressor-driven equipment. Includes a 5-minute restart delay.

AE120N25

Designed for televisions, computers, audio systems and other non-compressor equipment. Includes a 10-second restart delay.

APPLICATIONS & FEATURES

The N Series monitors supply voltage and frequency. Features listed in the Publisher catalogue include microprocessor control, voltage monitoring, a zero-voltage start-up detection circuit, LED indication, an audio fault indicator and a fire-retardant enclosure.

TECHNICAL SPECIFICATIONS	FG120N25	AE120N25
Start-up delay	5 minutes	10 seconds
Low-voltage trip point	92 VAC ± 1	92 VAC ± 1
High-voltage trip point	128 VAC ± 2	128 VAC ± 2
Reaction time (trip)	0.01–0.05 sec	0.01–0.05 sec
Operating temperature	0°C to 110°C	0°C to 110°C
Power consumption	0.0067 kW	0.0067 kW
Input voltage	120 VAC, 50/60 Hz	120 VAC, 50/60 Hz
Output current	15 A	15 A
Circuit protection	Fast-blow fuse	Fast-blow fuse
Number of outlets	1	4
Dimensions (in)	4.50 × 3.50 × 1.25	4.50 × 3.50 × 1.25
Dimensions (mm)	114.3 × 88.8 × 31.75	114.3 × 88.8 × 31.75
Average weight	0.48 lb	0.58 lb

IMPORTANT: AE120N25 is not recommended for refrigerators, freezers or compressor equipment. Use FG120N25 for those applications.

SE120N25 | Ultimate Digital Surge Protector

Modular plug-in surge protection for televisions, computers and sensitive electronic equipment.

SE120N25 • MODULAR SURGE PROTECTOR



SMART PROTECTION

A modular, plug-in digital surge protector designed for convenient protection of sensitive electronic equipment against abnormal supply voltage and frequency conditions.

RECOMMENDED APPLICATIONS

Computer systems • Flat-screen televisions • Small printers • Security systems • Audio systems • UPS

KEY FEATURES

10-second start-up delay • Zero-voltage start-up detection • Continuous voltage and frequency monitoring • LED status indication • Built-in plug receptacles • Fire-retardant enclosure

TECHNICAL SPECIFICATIONS

Start-up delay	10 seconds
Low-voltage trip point	92 VAC ± 1
High-voltage trip point	128 VAC ± 2
Reaction time (trip)	0.01–0.05 sec
Operating temperature	0°C to 110°C
Power consumption	0.0065 kW
Input voltage	120 VAC, 50/60 Hz
Output current	15 A
Circuit protection	Fast-blow fuse
Number of outlets	2
Dimensions (in)	4.00 × 1.75 × 1.27
Dimensions (mm)	101.60 × 44.45 × 32.26
Average weight	0.17 lb

IMPORTANT: SE120N25 is not recommended for clothes irons, toasters, microwave ovens or other heavy-duty appliances.

HD120Q25 | Ultimate Digital Surge Protector

Heavy-duty digital surge protection for appliances and commercial equipment.

HD120Q25 • HEAVY-DUTY SURGE PROTECTOR



HEAVY-DUTY PROTECTION

Designed to protect heavy-duty appliances and equipment against abnormal supply voltage and frequency conditions, including equipment with high start-up current demands.

RECOMMENDED APPLICATIONS

Microwave ovens • Washing machines • Refrigerators • Commercial printers • UPS • Other heavy-duty equipment within the rated capacity

KEY FEATURES

Selectable 10-second or 5-minute start-up delay • Rush-current start-up demand circuit • Continuous voltage monitoring • LED status indication • Fire-retardant enclosure • 2-year warranty

TECHNICAL SPECIFICATIONS

Start-up delay	10 seconds / 5 minutes (selectable)
Low-voltage trip point	92 VAC ± 1 (80 VAC rush current)
High-voltage trip point	128 VAC ± 2
Reaction time (trip)	0.01–0.05 sec
Operating temperature	0°C to 110°C
Power consumption	0.0065 kW
Input voltage	120 VAC, 50/60 Hz
Output current	22 A
Circuit protection	Slow-blow fuse
Number of outlets	1
Dimensions (in)	4.00 × 1.75 × 1.27
Dimensions (mm)	101.60 × 44.45 × 32.26
Average weight	0.22 lb

IMPORTANT: Do not connect equipment with a current demand exceeding the HD120Q25 maximum output rating of 22 A.

HD220N13 | Ultimate Digital Surge Protector

Digital surge protection for 220 VAC appliances and commercial equipment.

HD220N13 • INTELLIGENT DIGITAL SURGE PROTECTOR



INTELLIGENT PROTECTION

Designed to protect appliances and commercial equipment against abnormal high and low supply voltages.

RECOMMENDED APPLICATIONS

Refrigerators • Washing machines • Commercial printers • Microwave ovens • UPS • Other compatible equipment within the 13 A current rating

KEY FEATURES

Selectable 10-second or 5-minute start-up delay • Rush-current control circuit • Continuous voltage monitoring • LED status indication • Fire-retardant enclosure • 2-year warranty

TECHNICAL SPECIFICATIONS

Start-up delay	10 seconds / 5 minutes (selectable)
Low-voltage trip point	190 VAC ± 1 (180 VAC rush current)
High-voltage trip point	264 VAC ± 2
Reaction time (trip)	0.01–0.05 sec
Operating temperature	0°C to 110°C
Power consumption	0.0065 kW
Input voltage	220 VAC, 50/60 Hz
Output current	13 A
Circuit protection	Slow-blow fuse
Number of outlets	1 (square-pin 220 V socket) and square-pin plug
Dimensions (in)	4.00 × 1.75 × 1.27
Dimensions (mm)	101.60 × 44.45 × 32.26
Average weight	0.22 lb

IMPORTANT: Use only with compatible 220 V equipment whose current demand does not exceed the HD220N13 maximum output rating of 13 A.

IP13M120 | Ultimate Surge Protector Module

Intelligent voltage and wiring-fault monitoring for 120 VAC equipment.

IP13M120 • DIGITAL SURGE PROTECTOR MODULE



INTELLIGENT PROTECTION

Monitors abnormal high and low supply voltages and indicates wiring or grounding faults through its LED display.

RECOMMENDED APPLICATIONS

Security and fire-alarm systems • Gate openers • PLC and machine-control circuits • Power supplies • UPS • Compatible refrigeration and other equipment

KEY FEATURES

Wiring-fault indication • Continuous voltage monitoring • LED status display • Selectable 10-second / 5-minute restart delay • Quick-connect screw terminals • Mountable fire-retardant enclosure • 2-year warranty

TECHNICAL SPECIFICATIONS

Start-up delay	10 seconds / 5 minutes
Low-voltage trip point	92 VAC ± 1
High-voltage trip point	128 VAC ± 2
Reaction time (trip)	0.01–0.05 sec
Operating temperature	0°C to 110°C
Power consumption	0.014 kW
Input voltage	120 VAC, 50/60 Hz
Output current	15 A
Circuit protection	Fast-blow fuse
Wiring fault monitoring	LED fault indication
Connection type	Quick-connect screw terminals
Dimensions (in)	4.00 × 1.75 × 1.27
Dimensions (mm)	101.60 × 44.45 × 32.26

IMPORTANT: Confirm correct wiring and grounding before energizing the module. Use only with compatible 120 VAC equipment within its 15 A rating.

IP35M220 | Ultimate Smart Surge Protector

Digital voltage protection with selectable overcurrent switch for 220 VAC equipment.

IP35M220 • INTELLIGENT SURGE PROTECTOR MODULE



INTELLIGENT PROTECTION

Monitors abnormal high and low supply voltages and provides electronic overcurrent protection. Selectable 20 A / 30 A current settings suit a range of compatible equipment.

RECOMMENDED APPLICATIONS

Inverter air conditioners • Refrigerators • Ice makers • Power supplies • UPS • Medical equipment • Industrial equipment

KEY FEATURES

Electronic overcurrent protection • Continuous voltage monitoring • Selectable 20 A / 30 A current settings • Multicolor status LED • Quick-connect screw terminals • Mountable fire-retardant enclosure • 2-year warranty

TECHNICAL SPECIFICATIONS

Start-up delay	30 seconds
Low-voltage trip point	190 VAC ± 2
High-voltage trip point	265 VAC ± 2
Voltage-trip reaction time	0.01–0.05 sec
Operating temperature	0°C to 110°C
Power consumption	0.0045 kW
Input voltage	220 VAC, 50/60 Hz
Output current setting	20 A / 30 A (selectable)
Electronic overcurrent trip	0.3 sec
Status indication	Multicolor fault/status LED
Connection type	Quick-connect screw terminals
Dimensions (in)	4.00 × 2.19 × 1.49
Dimensions (mm)	101.60 × 55.63 × 37.85

INSTALLATION VIDEO: https://youtu.be/eXdYMV7HBpg

WP SERIES / PRODUCT SPECIFICATIONS

WP220Q40 / WP120Q40 | Ultimate Digital PLUS

Digital surge protection with LCD voltage and current monitoring.

WP SERIES • HIGH-CURRENT DIGITAL PROTECTION



DIGITAL PLUS PROTECTION

The WP Series combines a backlit LCD for voltage and current monitoring with microprocessor-controlled voltage protection. The display backlight can be switched on or off.

RECOMMENDED APPLICATIONS

Commercial printers • Inverter air conditioners • UPS • Pool pumps • Industrial and medical equipment • Refrigerators • Ice machines • Other compatible equipment

KEY FEATURES

Backlit high-resolution LCD • Dual start-up timer modes • Zero-voltage start detection • Voltage and current monitoring • Quick-connect screw terminals • Fire-retardant enclosure • 2-year warranty

TECHNICAL SPECIFICATIONS

SPECIFICATION	WP120Q40	WP220Q40
Start-up delay	10 sec / 5 min	10 sec / 5 min
Low-voltage trip	92 VAC ± 2	190 VAC ± 2
High-voltage trip	128 VAC ± 1	250 or 270 VAC ± 2 (selectable)
Reaction time	0.01–0.05 sec	0.01–0.05 sec
Operating temperature	0°C to 110°C	0°C to 110°C
Power consumption	0.018 kW	0.0086 kW
Input voltage	120 VAC, 50/60 Hz	220 VAC, 50/60 Hz
Output current	40 A	40 A
Circuit protection	Slow-blow fuse	Slow-blow fuse
Dimensions (in)	7.87 × 3.93 × 2.75	7.87 × 3.93 × 2.75
Average weight	1.4 lbs.	1.5 lbs.

Customized Ultimate Surge Protectors

Protection solutions configured for residential and industrial electrical systems.

CUSTOMIZED MODELS • BUILT FOR YOUR APPLICATION



APPLICATION-BASED DESIGN

Customized protection for domestic and industrial installations, including whole-home electrical systems, production machinery, chiller systems, and other equipment.

RESIDENTIAL

Single-phase systems, including 220 VAC and 120–N–120 VAC configurations.

INDUSTRIAL

Single-phase (1P) and three-phase (3P) applications, up to 200 A at 220 VAC.

FEATURES & CONFIGURATION OPTIONS

Monitoring & control

Optional LCD meter display, voltage protection and selectable start-up delay modes.

Electrical interface

Quick-connect screw terminals / contactor interface and rush-current start-up control circuit.

Enclosure

Quality plastic enclosure with features selected to suit the application.

Warranty

Two-year warranty for customized models.

Contact Tritronic Electronics Limited to discuss requirements and request a quotation.

About Tritronic Electronics Limited

Electronics product design, manufacturing, repair and industrial automation in Jamaica.

26
Years of experience

2
Awards for electronics products manufactured in Jamaica

OUR COMPANY

For 26 years, Tritronic Electronics Limited has provided electronics manufacturing and repair services in Jamaica. The company has received two awards recognizing electronics products manufactured in Jamaica. Professionals rely on our expertise, flexibility, quality, and affordable products and services.

WHAT WE DO

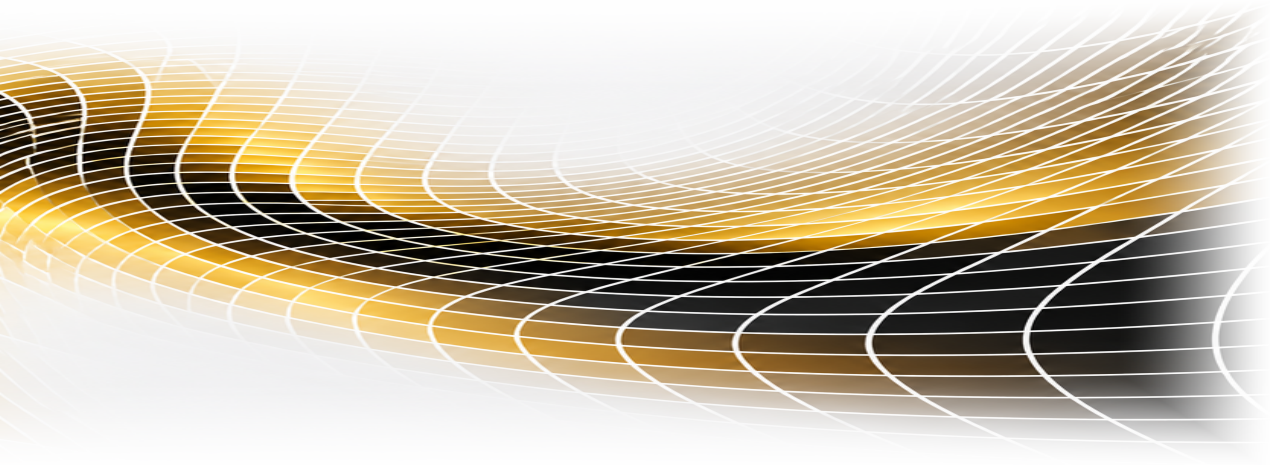
We focus on electronic product design and manufacturing, industrial and domestic electronics repair services, and industrial machine automation. Our work combines new-product development with professional repair and technical support.

OUR TEAM

Our skilled staff bring years of experience and a commitment to quality, professional service. Our customer service representatives and engineers work together to understand customers' requirements and provide practical assistance.

Expertise • Innovation • Quality • Professional Service

Note: Specifications are subject to change.



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