



# AC Power Products Overview

North America • August 2015

Imagination at work

A photograph of two men in white uniforms working at a computer workstation. The man on the left is seated and looking at the monitors, while the man on the right is standing and pointing at one of the screens. The workstation has several monitors displaying data, a keyboard, a mouse, and a telephone. The background is a blurred office environment.

Ensure 24/7 Uptime  
for the World's

Mission Critical  
Applications



# Telecommunications & Wireless Connectivity





# Healthcare

GE backup systems  
restore power

*...when every  
second counts*



# Data Centers, Internet, E-Commerce & Critical Business Operations



# Industrial, Wastewater & Power Generation



# Government & Military



# Transportation



# Financial Services, Banking & Wall Street



Businesses & technologies upon  
which the entire world depends on...

to sustain & enrich  
our daily lives



# It begins with an Automatic Transfer Switch



# ATS

## Advanced Switching of Power Sources

An essential part of any emergency or standby power system, quickly transferring loads from one power source to another source.



Residential &  
commercial



Light  
industrial



General  
purpose standby



Business &  
industrial critical



Healthcare & other  
mission critical



# Zenith ZT30

## 30-Cycle Automatic Transfer Switch

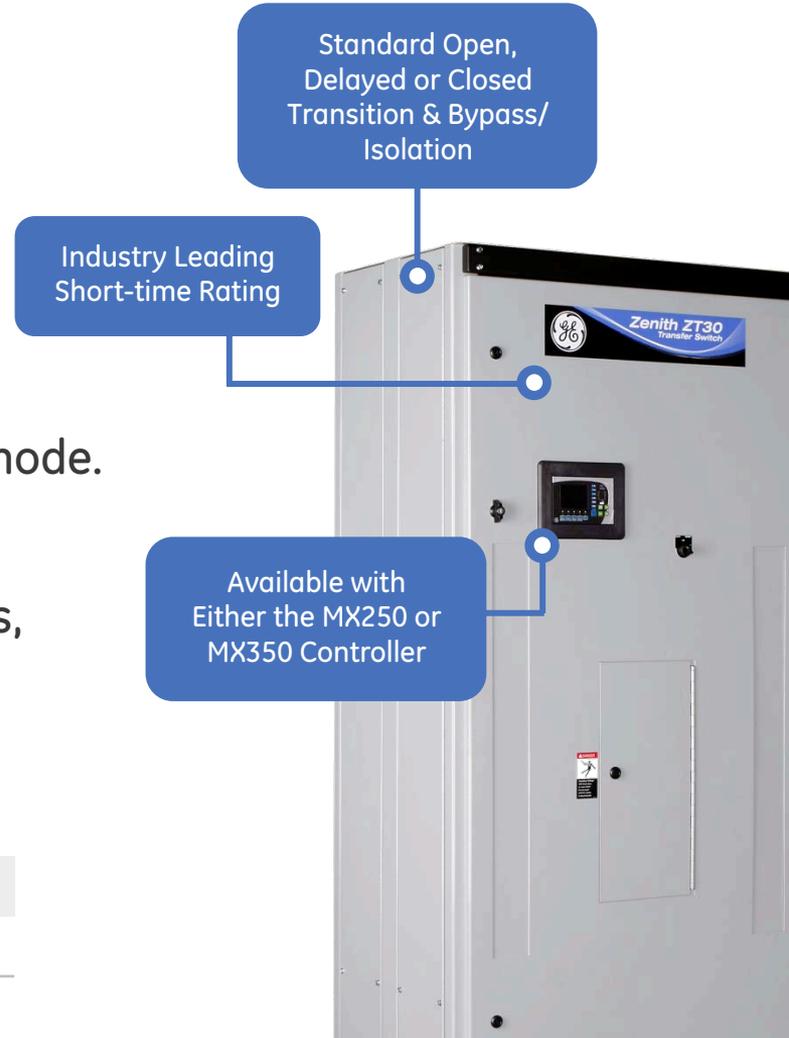
### Transition

Standard (Open), Delayed, or Closed Transition.  
All Transition Types available in Bypass/Isolation mode.

### Applications

Healthcare facilities, 7x24 operations (data centers, e-commerce, call centers), telecom central offices, wastewater treatment — Best-in-class footprint.

Rating	Output	Certification
1000-3000 Amp, 3 Phase	Up to 600 Volt	UL 1008/CCC



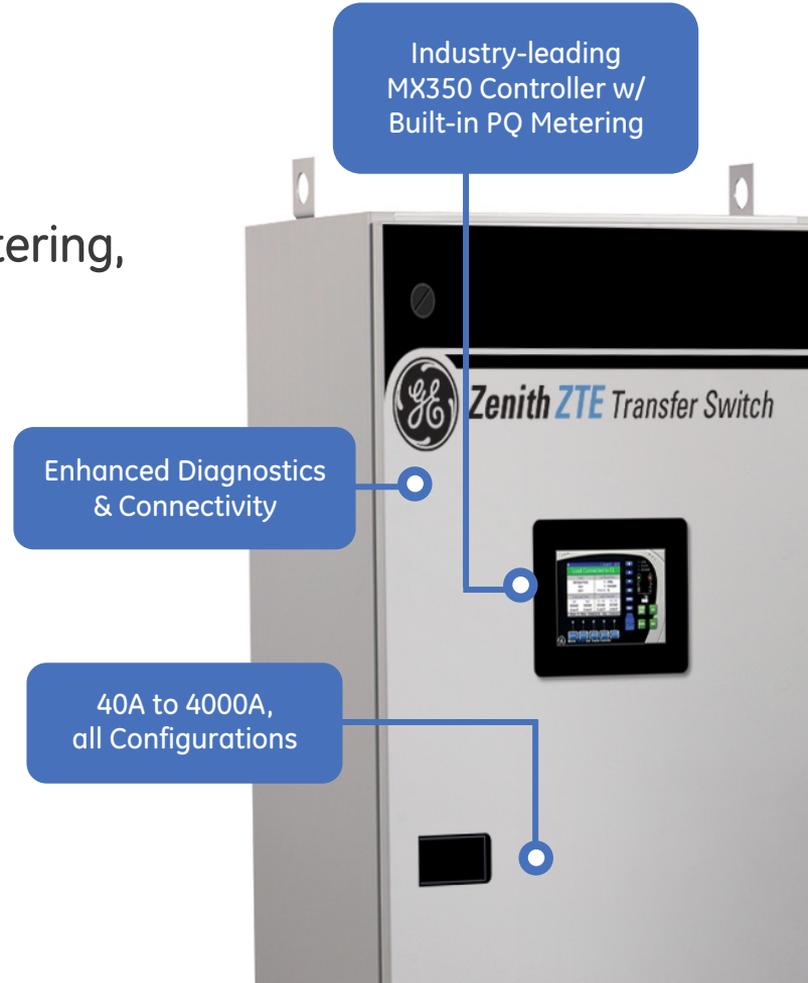
# Zenith ZTE Series

Specifically designed for large healthcare and mission critical applications, with built-in PQ metering, communications and advanced diagnostics.

## Transition

Standard, Delayed, Closed & Bypass/Isolation

Rating	Voltage	Certification
40-4000 Amp	120-600 Volt	UL1008/IEC/CCC



# Zenith ZTS Series

Highly reliable and flexible source switching for essential healthcare equipment and business critical applications.

## Transition

Standard, Delayed, Closed & Bypass/Isolation

Rating	Output	Certification
40-4000 Amp	120-600 Volt	UL1008/IEC/CCC



MX250 Controller w/  
More Advanced  
Sensing, Features

Available in Bypass



# Zenith ZTSMV Series

Built for business and industrial critical applications requiring reliability and enhanced operation.

## Transition

Standard, Delayed & Service Entrance

Rating	Voltage	Compliance
Up to 4000 Amp	Up to 35000 Volt	ANSI/EEE spec C37

Vacuum Circuit  
Breaker Design

Intuitive User Interface,  
Communications Capability,  
& Self Diagnostics

Front & Rear Accessible



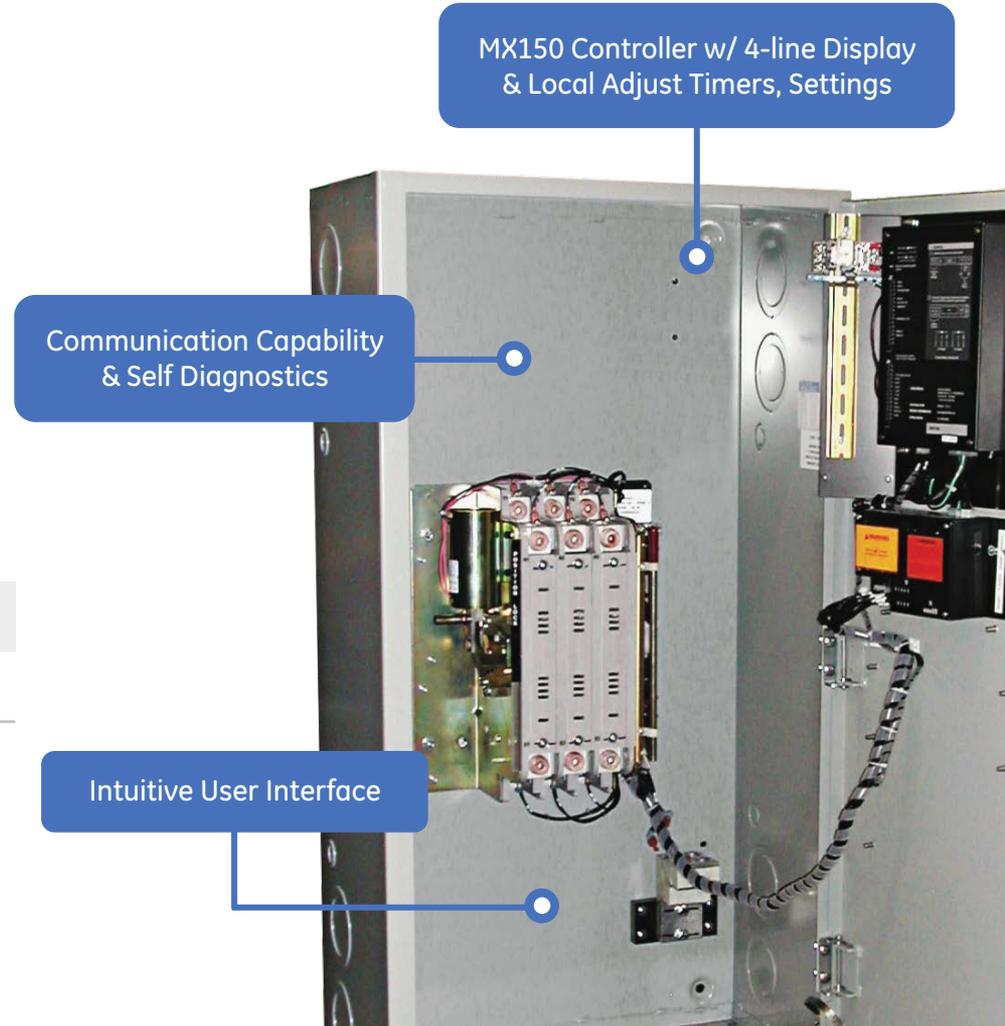
# Zenith ZTG Series

Rugged construction and flexible configurations for large commercial and industrial applications.

## Transition

Standard, Delayed & Service Entrance

Rating	Output	Certification
40-3000 Amp	120-600 Volt	UL1008/IEC/CCC



MX150 Controller w/ 4-line Display  
& Local Adjust Timers, Settings

Communication Capability  
& Self Diagnostics

Intuitive User Interface

# Zenith ZTX

Reliable, easy-to-operate source switching for small frame commercial and light industrial applications.

## Transition Standard

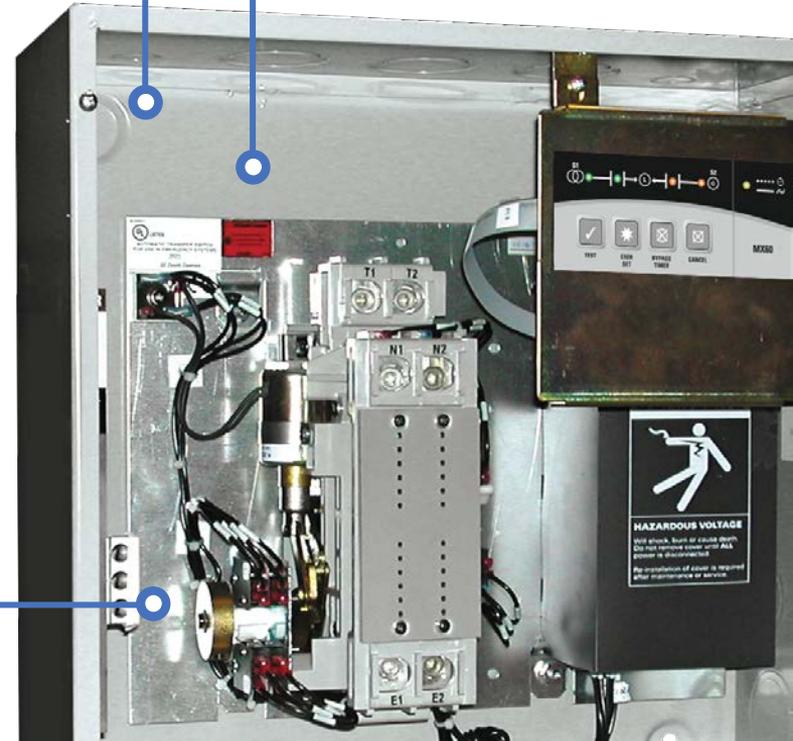
Rating	Output	Certification
40-400 Amp	120-480 Volt	UL1008/IEC



UL 1008 & CSA Listed

Seismic Compliance to IEEE-693-2005 & IBC-2006

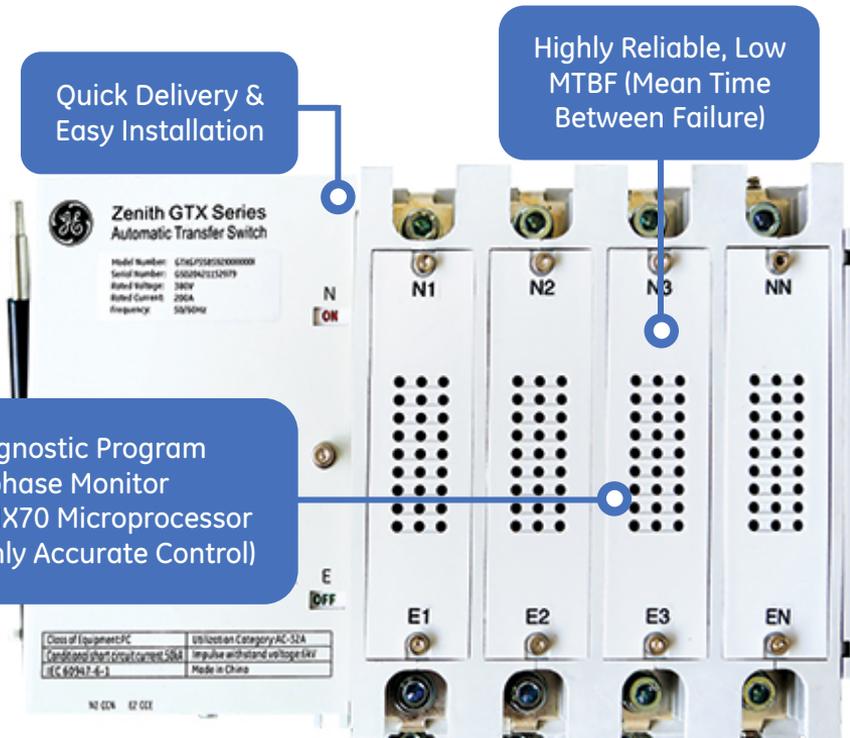
Double Throw, Mechanically Interlocked Contactor Mechanism



# GTX

Built for light commercial critical/non-life safety applications requiring the dependability and ease of operation.

Rating	Voltage	Certification
32-2600 Amp	120/380V, 208/416V, 50/60Hz	CCC/IEC



# Next comes PSG

Generator Paralleling  
Switchgear



# PSG

## Reliable Switchgear & Controls for Paralleling Standby Generators



Ensures backup power for extended utility outages where multiple parallel generators are needed to supply system loads.



Customized solutions for mission critical applications



Standard - innovative rack design, plug/play for North America and international emergency standby



# Energy Commander PSG

## System Ratings

Low Voltage: 600V & below | Medium Voltage: 5-35KV

## Emergency/Standby

Emergency applications with life safety/code requirements, such as hospital and wastewater facilities.

## Distributed Power/Distributed Generation

Revenue savings through reduction of utility charges via co-generation in parallel with the utility, or using generators as prime power source instead of utility service.

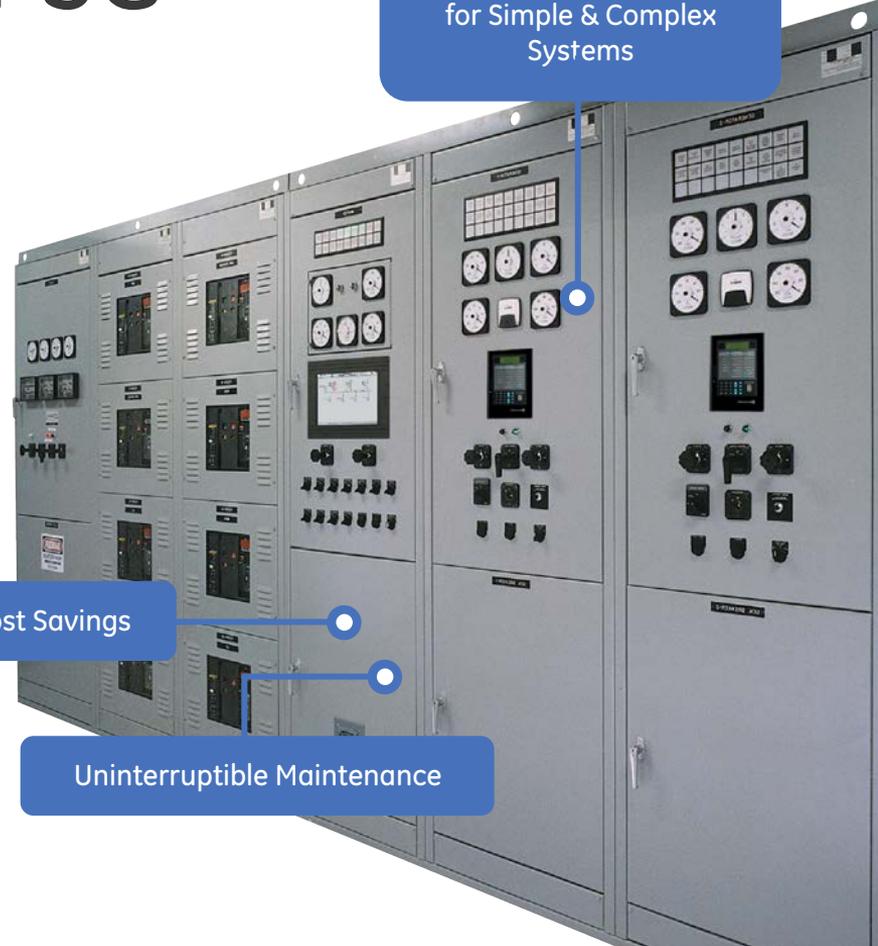
## Critical Power

Avoid revenue losses caused by extended utility power outages for large industries such as e-commerce, high-speed manufacturing and broadcast.

Design Flexible & Reliable  
for Simple & Complex  
Systems

Cost Savings

Uninterruptible Maintenance



# Digital Commander

GE's Digital Commander Paralleling Switchgear (PSG) is a leading solution to simple and very complex systems due to its design flexibility and reliability.

## Flexibility

Paralleling power sources allows a facility a wide variety of choices in the generation, distribution and utilization of the system's power.

## Uninterruptible Maintenance

When one engine - generator set is out of service for maintenance or repair, having others synchronized on the same bus can provide the needed back-up power, should an outage occur.

## Cost Savings

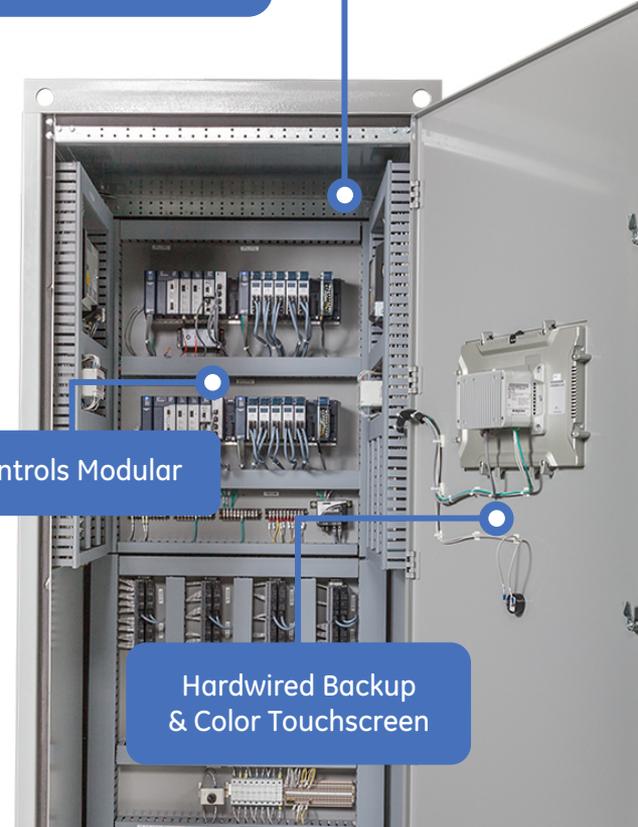
Savings can be realized on the application when a number of smaller sets would be less expensive than one large set or when the load makes it impractical to divide into several sections, each with its own generator.



Digital Power Quick Easy  
Paralleling Switchgear Custom  
Configurable

Controls Modular

Hardwired Backup  
& Color Touchscreen



# UPS Systems – 3Phase

Providing Clean, Reliable and Efficient  
Power with Battery Backup



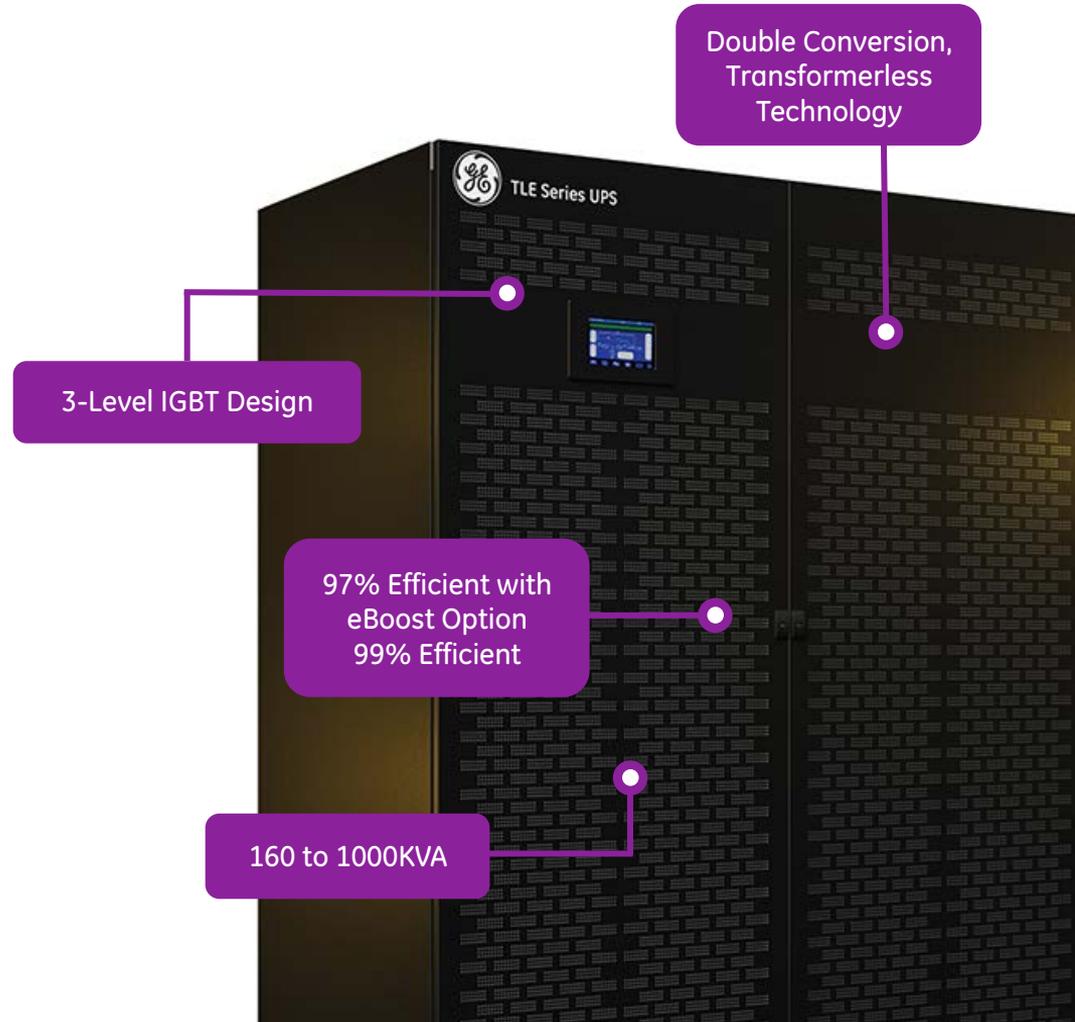
# TLE Series

99% efficient UPS with 3-level IGBT design, eBoost technology, transformerless topology

## Applications

Data centers and other critical process applications

Rating	Voltage	Certification
225-1000 kVA	480/277 VAC	UL
160-800 kVA	400/230 VAC	CE



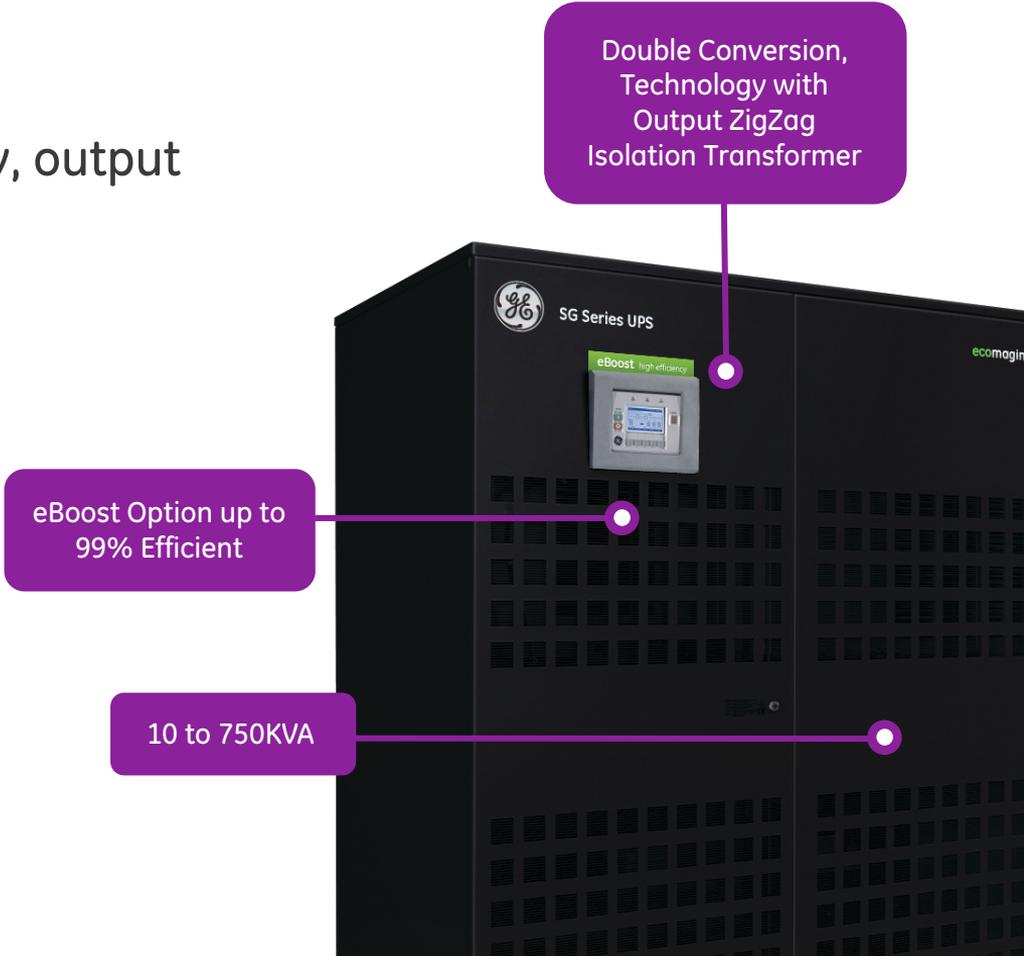
# SG Series

99% efficient UPS, eBoost technology, output zig-zag transformer

## Applications

Data centers, healthcare equipment, broadcast transmission

Rating	Voltage	Certification
225-750 kVA	480/277 VAC	UL
10-150 kVA	480/277 VAC	UL
10-600 kVA	400/230 VAC	CE



# LP33 Series

2-level IGBT design, ECOmode, transformerless topology, small footprint

## Applications

Data networks, telecom

Rating	Voltage	Certification
10-100 kVA	208/120 VAC	UL
10-120 kVA	400/230 VAC	CE



# UPS Systems – 1Phase

## Structured Cable Applications – IT Networks & Critical Process

Delivering reliable power in a compact package for smaller power applications such as IT networks and critical processes



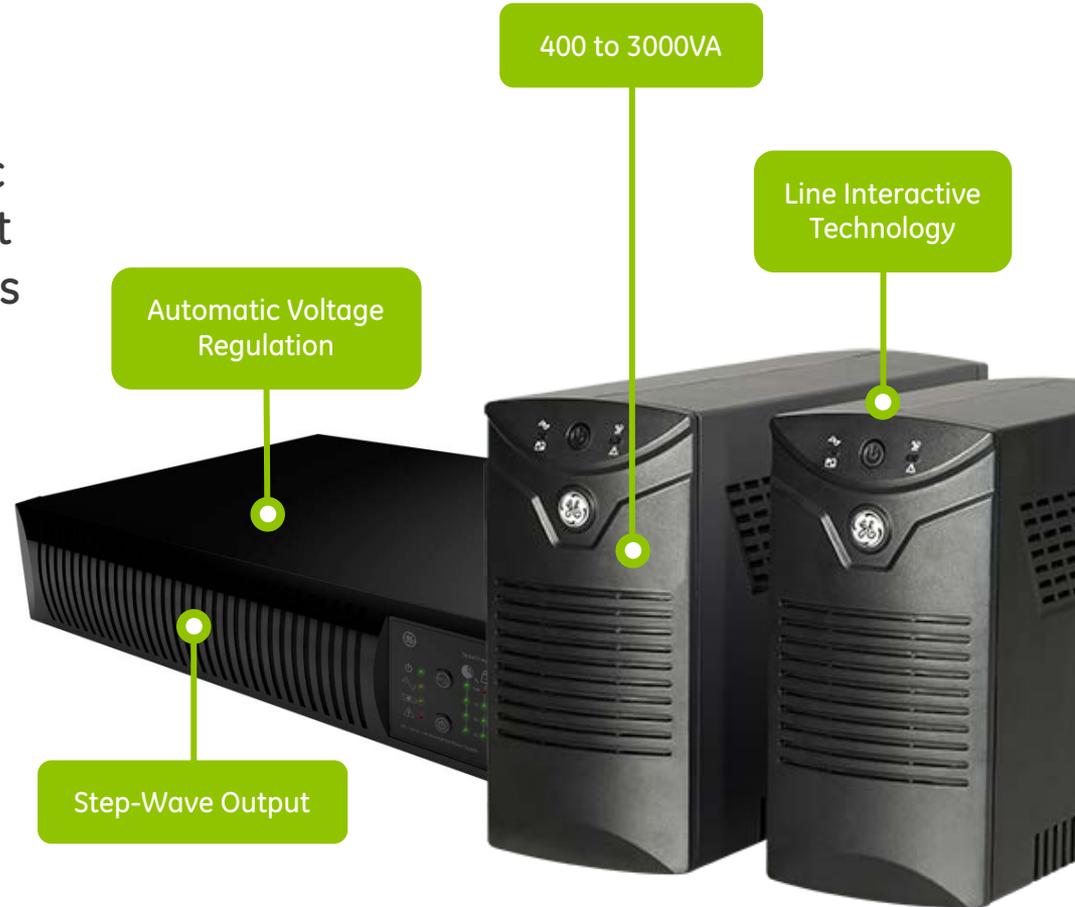
# VCL Series UPS

Line Interactive topology, automatic voltage regulation, step-wave output with internal hot swappable batteries

## Applications

Point-of-sale (EPOS), ATMs, network peripherals, PCs, routers, CCTV & security and servers

Rating	Voltage	Certification
800-3000 VA	120 VAC	UL
400-1500 VA	230 VAC	CE



# VCO Series UPS

Double conversion technology, Data line surge protection , High operating efficiency

## Applications

Point-of-sale (EPOS), ATMs, network peripherals, PCs, routers, CCTV & security and servers

Rating	Voltage	Certification
1000 - 3000 VA	230 VAC	CE



# VH Series UPS

Voltage & frequency independent (VFI),  
hardened design, superior battery management

## Applications

Healthcare, marine, wind turbine &  
controls, mission critical servers,  
laboratory testing devices

Rating	Voltage	Certification
700-2000 VA	120 VAC	UL
700-3000 VA	230 VAC	CE



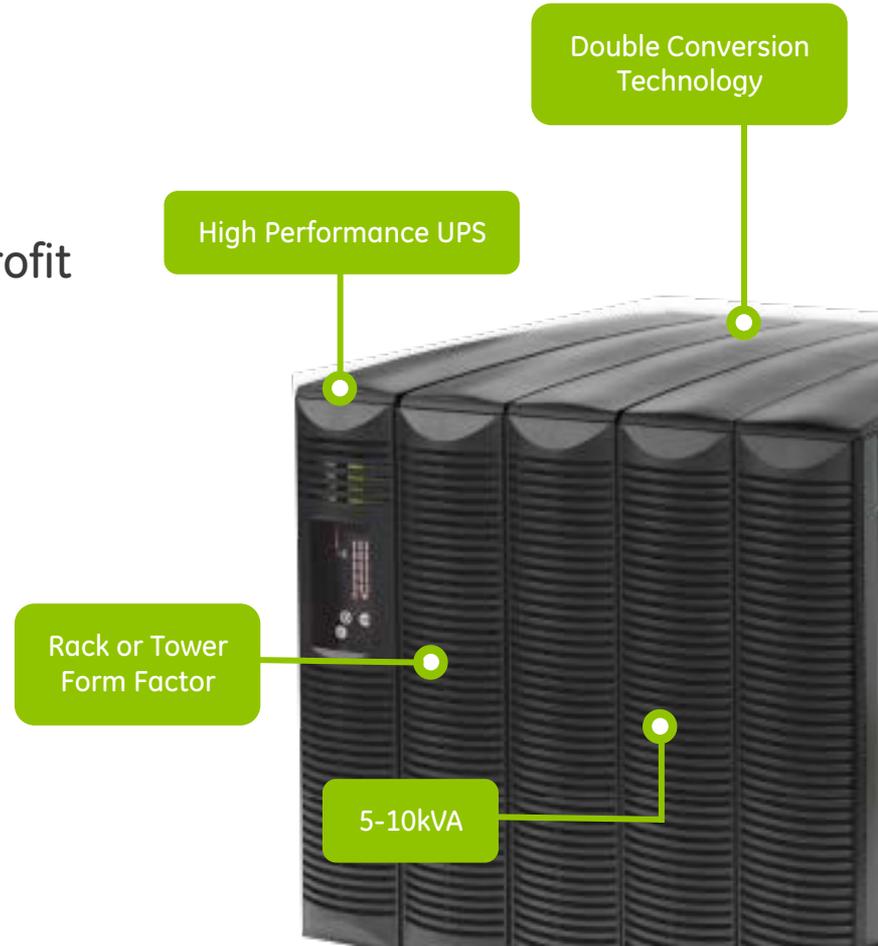
# GT Series UPS

True VFI, on-line double conversion, high performance UPS, parallel-ready technology with modular battery and easy expansion/retrofit

## Applications

IT centers, telecom equipment, security systems, financial institutions, fixed and mobile voice/data transmission

Rating	Voltage	Certification
5-10 kVA	120/208/240 VAC	UL
6-10 kVA	230 VAC	CE



# LP11 Series UPS

Double conversion, high efficiency (up to 97%) and redundant parallel capable, with galvanic isolation and GE's battery management for load security.

## Applications

Healthcare & retail medium data networks, telecom equipment, local site protection

Rating	Voltage	Certification
5-10 kVA	120/208/240 VAC	UL
3-10 kVA	230 VAC	CE



# Critical Power Distribution

## Data Center Power Distribution and Branch Circuit Monitoring



# MDU Series

## Monitored Distribution Units

Providing flexible power distribution and voltage transformation, including panel boards, subfeed breakers and monitoring.

## Applications

Data centers of all sizes

Model	Rating	Certification
MDU-CL	50-300kVA	UL
MDU-HP	225-750kVA	UL



# RDU Series

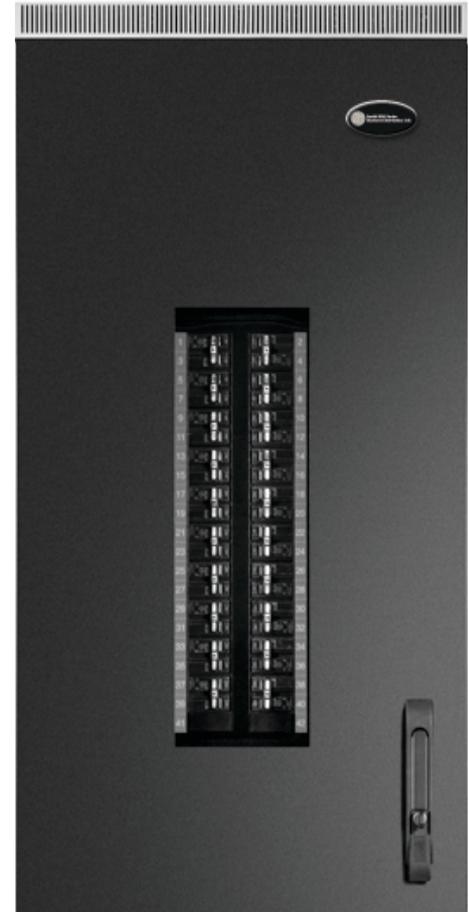
## Remote Distribution Units

Providing an extension of flexible power distribution and monitoring via panel boards, in several cabinet/design styles.

## Applications

Data centers of all sizes

Model	Rating	Certification
RDU-CL	Classic, 225/400A	UL
RDU-MC	Mission Critical, 2 Source	UL
RDU-SC	Server Cabinet Use	UL
RDU-WM	Wall Mount Use	UL



# DPB Series

## Distribution Power Busway

Providing overhead power distribution and monitoring to server cabinets or other critical loads.

### Applications

Data centers of all sizes, other overhead power distribution applications

Model	Rating	Certification
DPB	160-800 Amp	UL



# Static Transfer Switches

Data Center Use of 4-6msec  
Transfers Between Power Sources



# STS-3 Series

## 3Phase, Free-Standing

Providing the ability for millisecond transfers between utility or UPS power sources and minimizing inrush current on out-of-phase transfers.

## Applications

Large data center infrastructures

Model	Rating	Certification
STS-3	150, 250, 400, 600, 800, 1000, 1200, 1600 Amp	UL



# STS-1 Series

## 1Phase, Rack Mount

Providing dual source capability to critical loads in many market segments, including dual power sources for single-corded IT servers.

## Applications

IT network racks, industrial, medical, critical process



Model	Rating	Certification
STS-1	25, 45, 65 Amp	UL



# Surge Protection Devices

## External Units Outside Switchgear Assemblies

Engineered for reliability,  
flexibility and long life  
in the most extreme  
surge environment



# TR Wall Mount Series

The **TR Series** wall mount SPD handles the highest levels of surge activity found in commercial and industrial facilities.

Per Mode	Per Phase	Short Circuit Rating	Voltage	NEMA Rating
65kA-300kA	130kA-600kA	65 and 200kAIC	120V to 600V	NEMA 1, 4, 4X, 12



# Tranquell Series

The **GE Tranquell Series Surge Protective Device (SPD)** line is available in wall mount construction, as well as integrated within GE low voltage distribution equipment such as panelboards and switchboards. GE can also provide custom products for integration in other manufactures equipment. An integrated design allows for short lead lengths, with a controlled installation process. The integrated design eliminates installation errors, saves wall space and can reduce the installed cost of the protection.

Per Mode	Per Phase	Short Circuit Rating	Voltage	NEMA Rating
40kA	80kA	65 and 200kAIC	120V to 240V	NEMA 1



# TR Panel Box

## Extension Series

The **TR Panel Box Extension SPD** provide the benefits of a separate wall mounted but uses less horizontal wall space.

Per Mode	Per Phase	Short Circuit Rating	Voltage	NEMA Rating
65kA-300 kA	130kA-60 0kA	65 and 200kAIC	120V to 600V	NEMA 1, 4, 4X, 12



# TR 5-450 Series

The **TR 5-450 Series** SPD provides industrial surge protection for sensitive electronics, in a rugged cast aluminum enclosure.

Per Mode	Per Phase	Short Circuit Rating	Voltage	NEMA Rating
40kA	80kA	65 and 200kAIC	120V to 240V	NEMA 1



# Consulting Services, Power Quality Audits & Expert Product Training



# Worldwide Technical Support

backed by an Extensive  
Mfg. Rep. Network



A blue-tinted photograph of a modern city street. In the foreground, a crosswalk with white stripes is visible on a dark road. Several tall, modern glass skyscrapers rise in the background, their windows reflecting light. The sky is a pale, hazy blue. The overall scene is urban and contemporary.

Want to Learn More?

# Connect With Us

Contact a  
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Representative  
today for a  
personal  
consultation.



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