



# TreStar<sup>®</sup> 924

## Emergency Lighting UPS

EQUIPMENT



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## Central System Advantages:

- Single point operations for simplified testing and recordkeeping
- Simplified service for and reduced cost of ownership
- Common battery pack for easy maintenance

*Consult our factory for compatibility and performance*

## Lighting Types Supported:

- Incandescent
- Magnetic and electronic fluorescent ballasts
- High power factor compact fluorescent
- High Intensity Discharge (HID)
- High Pressure Sodium (HPS)
- Metal Halide (MH)

## Warranty

### Electronics:

A full **1 Year On-site Warranty** comes standard, and covers both parts and labor. Start up is required for warranty coverage.

### Battery:

Our prorated **10 Year Warranty** on the Battery System ensures that your batteries are protected from system failure now and in the future. *(Warranty provided by battery manufacturer.)*

Extended warranties, customized service plans and preventative maintenance are also available. *Please refer to our warranty statement for complete details.*

## Three-Phase Uninterruptible Power Supply (UPS) for Emergency Lighting Applications

The TreStar 924 offers three phase uninterruptible power supply (UPS) central emergency lighting systems for 10 - 75kW applications. The TreStar 924 is a true, on-line, double-conversion UPS built to withstand any lighting type with computer-grade power quality.

Through our robust double-conversion technology, the TreStar 924 isolates and protects the connected load from the AC primary supply, protecting it from damaging sags, swells, harmonics, noise, voltage imbalances and interruptions (blackouts). In addition to meeting life safety requirements, the TreStar 924 also can increase the life expectancy of the protected lighting and reduce long-term cost of ownership.

In the event of an AC power failure, the TreStar 924 will automatically transfer to battery power and continue to provide power without any interruption for a full 90 minutes. When power returns to normal, the TreStar 924 will automatically recharge the batteries to be ready for the next power disturbance.

### Technical Specifications

#### General

- True on-line, double-conversion UPS
- Continuous, no-break operation
- Three-phase operations support single or three-phase loads
- LCD Front panel monitoring and control
- Automatic system bypass
- Internal maintenance bypass

#### Input

- Input Voltage Rating: 208Vac or 480Vac
- Input Voltage Range: +/-20% (166-250Vac, 384-576Vac)
- Input frequency: 60Hz +/-5%
- Standard main input breaker
- Full load walk-in from 25% to 100% of rated load in 10 seconds
- Surge Withstand: Meets IEEE C62.41

#### Output

- Standard main load disconnect breaker
- IGBT (Insulated Gate Bipolar Transistor) PWM (Pulse Width Modulated) inverter
- Inverter output distortion: ≤5% THD (100% non-linear)
- Inverter output distortion: ≤3% THD (linear loads)
- Voltage regulation: +/- 1% of nominal at full load
- Frequency: 60 Hz

#### Battery

- Automatic battery testing from front panel
- Sophisticated battery management to extend life
- Standard backup time of 90 minutes
- Valve-Regulated, Lead-Acid (VRLA) battery.
- 10 year design life at 77°F (25°C)
- Full recharge in less than 72 hours

#### Housing

- Freestanding, NEMA 1 enclosure
- Front and top service access only
- Bottom access for conduit entries

#### Environmental

- Agency Compliance: UL924, FCC & CSPR22, Class A
- Operating temperature range 18 °F (-8 °C) to 104 °F (40 °C)
- Acoustical Noise: 52 dBA at 3 feet
- Relative Humidity: 0-95% non-condensing
- Meets NFPA 101 Life Safety, and NEC codes

#### Monitoring/Communications

- Front Panel LCD Display
  - 2 x 20 character display
  - Multilingual
  - UPS status and alarms
- Communications Port
  - RS-232
  - Dry Contact (AS/400)
  - Remote monitoring
  - SNMP capable

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## What is an Emergency Lighting UPS?

The National Fire Protection Association (NFPA) has written Life Safety Code (NFPA 101) that defines the requirements for emergency lighting for means of egress. The standard requires that emergency illumination shall be provided for not less than 1-1/2 hours (90 minutes) in the event of failure of normal lighting. Installation and testing requirements are written in the National Electric Code (NFPA 70).

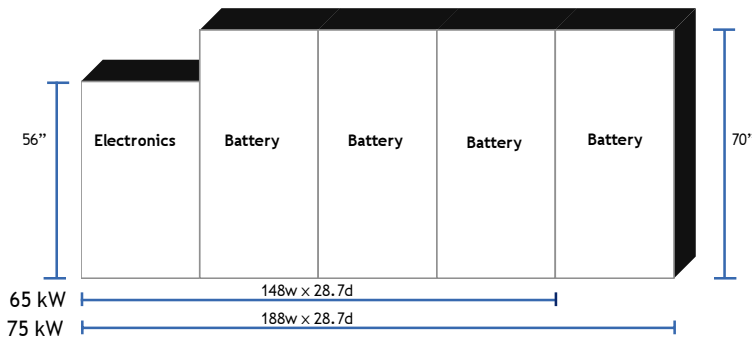
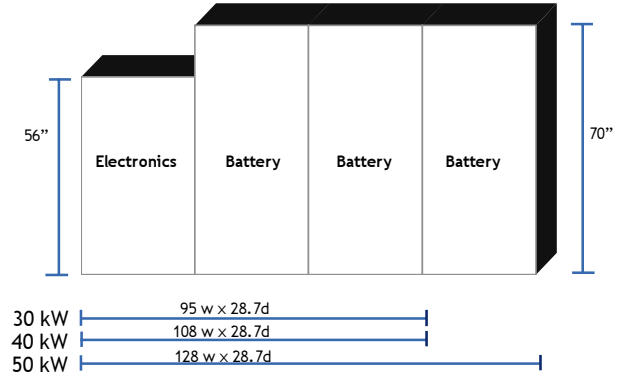
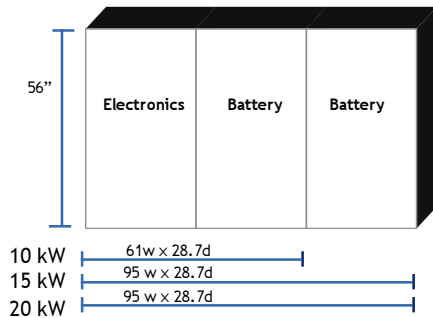
The TreStar 924 is a central system battery back-up to meet these requirements.

### Product Specifications

Model	Voltage Input	Voltage Output	Full Load Heat Rejection (BTU)	UPS Electronics Weight (lbs)	Total System (Battery & UPS) Weight (lbs)
<b>10kW</b>					
SE3020/10-22PB	208/120	208/120	4,653	900	3,065
SE3020/10-42PB	480	208/120	5,098	1,200	3,365
SE3020/10-44PB	480	480/277	5,554	1,400	3,565
<b>15kW</b>					
SE3020/15-22PB	208/120	208/120	6,979	900	4,050
SE3020/15-42PB	480	208/120	7,648	1,200	4,350
SE3020/15-44PB	480	480/277	8,332	1,400	4,550
<b>20kW</b>					
SE3020/20-22PB	208/120	208/120	9,305	900	5,230
SE3020/20-42PB	480	208/120	10,197	1,200	5,530
SE3020/20-44PB	480	480/277	11,109	1,400	5,730
<b>30kW</b>					
SE3030/30-22PB	208	208/120	12,651	1,300	7,200
SE3030/30-42PB	480	208/120	12,651	1,300	7,200
SE3030/30-44PB	480	480/277	12,651	1,300	7,200
<b>40kW</b>					
SE3050/40-22PB	208	208/120	20,394	1,750	9,550
SE3050/40-42PB	480	208/120	18,611	1,350	9,150
SE3050/40-44PB	480	480/277	18,611	1,350	9,150
<b>50kW</b>					
SE3050/50-22PB	208	208/120	25,492	1,750	11,950
SE3050/50-42PB	480	208/120	23,264	1,350	11,550
SE3050/50-44PB	480	480/277	23,264	1,350	11,550
<b>65kW</b>					
SE3075/65-22PB	208	208/120	36,104	2,200	13,900
SE3075/65-42PB	480	208/120	30,243	1,800	13,500
SE3075/65-44PB	480	480/277	30,243	1,800	13,500
<b>75kW</b>					
SE3075/75-22PB	208	208/120	41,658	2,200	17,800
SE3075/75-42PB	480	208/120	34,895	1,800	17,400
SE3075/75-44PB	480	480/277	34,895	1,800	17,400

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## Cabinet Dimensions (inches)



### About Staco Energy Products Co.

Since 1937, Staco Energy Products Co. has been in the business of manufacturing voltage control and power quality products. Now we offer total power solutions for end-user and OEM applications.

As power quality experts, we offer a full-service customer support program. Beginning with your initial contact, our thorough application assistance ensures that you select the right product and options for your needs. Our friendly customer service staff is here to address any questions or problems you may have during your purchase, or after you start using your products.

Our experienced engineers are available to work with complex applications, or simple modifications to our standard product.

In addition to the TreStar 924, we offer a wide array of power quality products, including:

- Uninterruptible Power Supplies
- Power Conditioners
- Voltage Regulators
- Power Factor Correction
- Harmonic Filters
- Variable Transformers
- Custom Engineered Test Sets

**STACO ENERGY**  
PRODUCTS CO.  
A Components Corporation of America Company



Contact us today to find out how we can help with your power needs!

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