

Job/Location: _____	Job Type: _____
Contractor: _____	Date: _____
Prepared By: _____	



### ■ specifications: internal

The VESTA MAX is designed to provide up to 600 watts/600VA of emergency power to incandescent, fluorescent, induction and LED luminaires. The VESTA MAX provides clean, sinusoidal AC output power allowing it to be remotely mounted up to 1,000 feet away from the controlled luminaire(s). Unlike an emergency ballast, it provides power to the input side of the luminaire, (including the ballast or driver) eliminating any chance of incompatibility. All configurations will provide emergency power output for a minimum of 90 minutes.

### ■ specifications: external

**HOUSING:** The durable steel cabinet is powder coated white; providing a scratch and corrosion resistant finish. Custom housing colors are available.

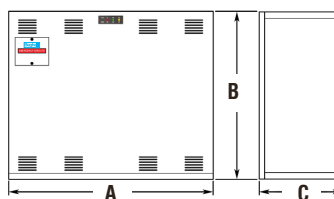
**MOUNTING:** Designed to be surface mounted. VESTA MAX is configured for mounting directly to a wall via keyhole slots provided on the back of the housing.

### ■ system advantages

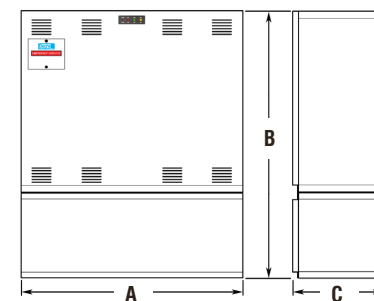
Compared to traditional emergency lighting units, VESTA MAX provides emergency back-up to multiple luminaires from a single source. This results in lower installation and maintenance costs. Connected luminaires are driven at full output, this results in superior egress lighting and improved safety.

### ■ dimensions (in, mm)

VST-375



VST-600



Series	A	B	C
VST-375	18" (457.2 mm)	16.625" (422.2 mm)	8.25" (209.55 mm)
VST-600	18" (457.2 mm)	25.25" (641.35 mm)	8.25" (209.55 mm)

### ■ ordering logic

Series	Capacity (Watts/VA) <sup>1</sup> / Battery	Input/Output	Options <sup>2</sup>
VST-MAX	375W	UNV	OCB1 (one output breaker)
	600W		OCB2 (two output breakers)
			ICB (input breaker)
			SP (special housing color)
			AO (Adjustable Output/Dimmer Bypass)
			4CK (Four Output Circuit Switching)
			AT (Auto-test diagnostics)

**NOTE 1:** Values for 1 1/2 hrs.

**NOTE 2:** The OCB option can not be ordered with the AO or 4CK option in the same unit.

**EXAMPLE:** VST-MAX-375W-UNV-AT

**DESCRIPTION:** VESTA MAX 375W inverter, 120/277V input, 120/277V output, autotest.

## ■ specifications: electrical

### INPUT:

- Input Voltages: Universal 120 or 277VAC, 60Hz (User selectable with (2) wire jumpers provided).
- Input Frequencies: 60Hz ±2%
- Input Surge Protection: Meets UL924
- Input Protection: Provided by Service Panel rated at 20 amps maximum.

### OUTPUT:

- Output Voltages: (60Hz) 120 or 277VAC
- Efficiency Rating: 98% at full rated load (line)
- Waveform: Sinusoidal (digitally controlled)
- Static Voltage: ±5% during battery discharge. 0-100% linear load.
- Output Frequencies: 60Hz. ±0.3Hz during emergency cycle
- Output Distortion: Less than 3% THD (linear load)
- Transfer Time: Less than 1.0 second
- Load Power Factor Range: 0.88 Lead to 0.88 Lag
- Minimum Loading: 0% of rated system capacity
- Output Protection: Circuit breaker

**BATTERY:** Sealed Lead Calcium (10 year life). 60VDC for 375W, and 96 VDC for 600W models 90 minutes runtime standard- based on battery performance at 77°F (25°C). Other runtimes available, consult factory. Low Voltage Battery Disconnect protects the battery from being severely damaged by deep discharge during prolonged power failures. DC Overload and Short Circuit Protection provided by a DC input breaker and fuse. Operating temperature from 68°F to 86°F (20°C to 30°C).

**CIRCUIT:** The VESTA MAX features a fully automatic, temperature compensated, dual-mode charger.

**VST-MAX-375W:** 37W maximum (2.5W in standby).

**VST-MAX-600W:** 56W maximum (5W in standby).

Meets UL924 requirements and all models are CEC Title 20 compliant as standard. The battery circuit breaker is also used as a battery isolator. Momentary test switch, AC-On, Charge-On and Inverter-On LED indicator lights are standard. AC Lockout prevents battery discharge prior to initial unit power-up. Brownout Protection automatically switches the unit to emergency mode when utility voltage is significantly reduced.

**NOTE:** Optimum system performance between 20°C (68°F) and 30°C (86°F); temperatures outside of this range will affect battery performance and life.

## ■ specifications reference chart

Model	Input/Output Voltage	Capacity For 1 1/2 hrs (Watts/VA)	System Weight		System Efficiency (Full Load)	Number of Batteries	Battery Voltage (VDC)	Battery Current (Amps)	AC Input Current (Max)		Thermal Output (BTUs)	
			Lbs.	Kg.					120VAC	277VAC	On-Line	Emergency
VST-MAX	120/277VAC	375/375	113	51.3	98%	5	60	7.3	3.43	1.49	11	205
	120/277VAC	600/600	172	78.1	98%	8	96	7.1	5.50	2.38	15	275

## ■ specifications: mechanical

The VESTA MAX system's sinusoidal AC output design eliminates voltage drop and proximity concerns and can be located conveniently out of sight. In lighting applications, no special or additional emergency fixtures are necessary. Simply designate and connect existing lighting fixtures, either interior or exterior, to VESTA MAX for emergency operation.

## ■ self-powered

Upon failure of the normal utility power, VESTA MAX automatically turns on via a solid state switching circuit and provides a minimum of 90 minutes of emergency power to the connected load. Lumen output will be maintained at 100% of the lamp's rating throughout the entire duration. A solid state low voltage disconnect circuit is used to protect the battery from being severely damaged by a deep discharge. When normal utility power is restored, the unit switches the load back to normal utility operation and the fully automatic, temperature compensated, dual mode charger begins to restore the battery; bringing it to full charge within UL 924 specified parameters. A brownout sensing circuit insures proper operation during "low line" conditions.

## ■ system status monitoring panel

VESTA MAX provides a monitoring panel on the front of the unit to show operating status at all times. The panel provides a test switch for user initiated system tests and a 3-LED array that provides an intuitive visual indication of unit readiness.

## ■ warranty

Unit: 3-years full coverage against defects in materials and workmanship from date of invoice.

Battery: 3 years full warranty plus an additional 7 years of pro-rated.