

The ST-MA-700 Series offers a contemporary slim profile steel housing design ideal for commercial and institutional installations utilizing the ADA Compliant, State of Connecticut required, universal handicap symbol. This series features high intensity red or green LED's providing bright and uniform illumination, while offering durability and strength in a 20 gauge steel enclosure.

Model: \_\_\_\_\_ Date: \_\_\_\_\_  
 Accessories: \_\_\_\_\_  
 Job Name: \_\_\_\_\_ Type: \_\_\_\_\_

**FEATURES**

- Meets State of Connecticut Emergency Building Code requirements (Para. 1011.1.2)
- Enclosure constructed of rugged 20 gauge steel
- Face includes "EXIT" wording with the ADA compliant, universal wheelchair accessible symbol
- Charge rate/power "ON" LED indicator light with test button
- Maintenance-free NiCad battery
- CSA listed 90 minute emergency run time, 24 hour recharge time
- Exit face is illuminated by long-life, high intensity, red or green LEDs
- Field selectable directional chevrons included for all configurations
- Ceiling, back or end mount
- 120/277V dual primary, 60Hz input
- Standard finishes: Black or White
- Assembled in U.S.A.



**WARRANTY**

Any component that fails due to manufacturers defect is guaranteed for 5 years with a separate 5 year pro-rated warranty on the battery. The warranty does not cover physical damage, abuse or acts of God. See the full ESW warranty document for detailed information.



**ORDERING INFORMATION Example: ST-MA-700**

Series	Power Source	Finish
	LB = AC Only	WH = White
ST-MA-700 = Red Double Face	WB = With Battery	BL = Black
ST-MA-700= Green Single Face		
ST-MA-700= Green Double Face		

#### CONSTRUCTION

The ST-MA-700 series exit is constructed of 20 gauge steel. Universal chevron knockouts are concealed and easily removed. All units are supplied with mounting canopy for back, top or end mounting. Finish options include white or black powder coat.

Stencil letters and ADA compliant wheelchair symbol are 6" high with 3/4" stroke, with minimum of 100 ft viewing distance rating as required by UL924 standard.

#### ILLUMINATION

Illumination of the ST-MA-700 series is accomplished utilizing high-intensity, long-life red or green LEDs. LEDs provide excellent illumination while maximizing energy efficiency. As a maintenance-free solution, LEDs provide up to 100,000 hours of use without failure.

#### ELECTRICAL

##### Input

Dual-voltage input 120 or 277VAC @ 60Hz.

##### Sealed Nickel Cadmium Battery – NiCad

ESW sealed nickel cadmium batteries are maintenance-free with a life expectancy of 15 years. Nickel cadmium batteries offer high discharge rates and continue to perform in a vast temperature range from 0-40 degrees C. NiCad technology provides long lasting, safe and reliable performance by utilizing the jelly-roll design and allows a Ni-Cad cell to deliver a much higher maximum current than an equivalent size alternative battery. As a relatively larger area of the electrode is in contact with the active material in each cell, the internal resistance for an equivalent sized NiCad cell is lower which increases the maximum current that can be delivered.

##### Emergency

The ST-MA-700 series exit will operate for a minimum of 90 minutes during a loss of power with a 24 hour maximum recharge time for the battery.

##### Brownout Circuit

The brownout circuit monitors the flow of AC current to the unit and triggers the emergency lighting system once a set reduction of AC power occurs. This dip in the voltage will cause many fixtures to extinguish causing loss of normal lighting even though a total power failure has not occurred.

##### Low Voltage Disconnect

When the battery's terminal voltage falls below predetermined levels, the low-voltage circuit disconnects the emergency lighting load. The disconnect remains in effect until normal power is restored, preventing deep battery discharge and improving the life of the battery. The disconnect will also automatically reconnect the load circuit once the battery voltage returns to a normal value after charging.

##### Solid-State Transfer

The unit features a solid-state switching transistor which eliminates damaged contacts or mechanical failures associated with relays. The switching circuit is designed to detect a loss of AC power and automatically energizes the lamps. Upon restoration of the AC voltage, the emergency lamps will switch off and the charger will automatically recharge the battery.

##### Overload and Short-Circuit Protection

The solid-state overload monitoring system in the DC circuit disconnects the lamp load from the battery should excessive wattage demands be made and automatically resets when the overload or short-circuit is removed. This overload current protective characteristic eliminates the need for fuses or circuit breakers for the DC load.

#### Test Button

Our easily located test button allows for manual verification of proper operation of the transfer circuit and emergency lamps.

#### INSTALLATION

Installs in minutes with easy-to read instructions and detailed diagrams. No special hardware or tools necessary. Internally housed components and battery.

#### CONFORMANCE TO CODES & STANDARDS

The CT700E Series is ETL listed and meets or exceeds the following: UL 924, NEC requirements and NFPA 101. Specifically designed to meet the requirements of the State of Connecticut, Building Code Paragraph 1011.1.2

#### DIMENSIONS

