

Job: \_\_\_\_\_

Model: \_\_\_\_\_

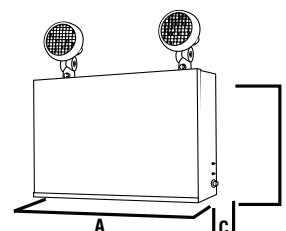
Type: \_\_\_\_\_

Date: \_\_\_\_\_



**internal**

The EST is configured with 120/277V input and a high-efficiency two stage charger providing precise float voltage control with low voltage disconnect protection. All components used in the circuitry are temperature compensated. Charger status is easily determined via a dual diagnostic LED display. Standard features include low voltage disconnect, AC lockout and brownout protection.



■ **external**

The **EST** cabinet is constructed with 20 gauge steel for models below 42W and 18 gauge for  $\geq 42W$ . Terminal connectors allow for larger gauge wires to be connected for remote loads. A universal knockout pattern with keyhole slots on the back of the unit optimizes mounting flexibility. Standard conduit knockouts provide the EST with the widest range of options for AC power source connection.

Unit Size	A	B	C
(6V 27-36W) (12V 36W)	10" (254mm)	9" (229mm)	3 <sup>1</sup> / <sub>4</sub> " (82mm)
(12V 27W)	12 <sup>1</sup> / <sub>4</sub> " (311mm)	5"(127mm)	3" (76mm)
(6V 42W-100W) (12V 60-90W) (24V 100W)	13 <sup>1</sup> / <sub>2</sub> " (343mm)	10 <sup>1</sup> / <sub>8</sub> " (257mm)	4 <sup>1</sup> / <sub>4</sub> " (108mm)
(12V 120-140W)	13" (330mm)	10 <sup>1</sup> / <sub>8</sub> " (257mm)	8 <sup>1</sup> / <sub>2</sub> " (216mm)

\*NOTE: Cabinet size may vary based on product configuration. Dimension D in drawing above will vary based on heads supplied.

## ■ ordering information

EXAMPLE: EST 6 36 2LR9W

Series	Operation	Pb-A (Capacity)	Ni-Cd <sup>3</sup> (Capacity)	Emergency Heads**	Lamps <sup>5</sup>	Options
EST	6V	27(6V,12V)	42 (6V, 12V)	2BTMR (double, MR16)	See lamp	ACTB (terminal block AC)
	12V	36 (6V,12V)	54 (6V)	1BTMR (single, MR16)	selection	AM (ammeter)
		60 (6V, 12V)	90 (6V, 12V)	2LR (double PAR36)	on page 2	AT (autotest)
		72 (6V, 12V)	100 (24V)	1LR (single PAR36)		BLK (black finish)
		100 (6V)	130 (12V)	2SR (double PAR18)		BZ (buzzer)
		120 (6V, 12V)		1SR (singlePAR18)		CC (custom color- specify)
		140 (12V)		2TESSQ (double LED head)		DCTB (terminal black DC)
				1TESSQ (single LED head)		FAI <sup>1</sup> (fire alarm interface)
			0 (no heads)		IRT <sup>2</sup> (infrared testing- specify input voltage)	
						LC (line cord set, 120V only)
						NC <sup>3</sup> (Ni-Cd)
Accessories						SM (side-mounted heads)
HHC <sup>2</sup> (remote control for IRT)						TD <sup>4</sup> (time delay - specify 5, 10, 15 min)
						TP (tamper proof screws)
						VM (voltmeter)

**NOTE 1:** Specify type of fire alarm signal: normally open, normally closed or 6, 12, 24VDC (specify voltage used)

**NOTE 2:** HHC (hand held controller for IRT) should be ordered separately (item code:476000021)

**NOTE 3:** For nickel-cadmium battery, select NC from options and capacity from Ni-Cd column.

**NOTE 4:** Must specify input voltage and delay time (10 min standard)

**\*\* Aluminum heads not rated for wet location.**

**NOTE 5: ENSURE BATTERY CAPACITY IS EQUAL TO OR HIGHER THAN TOTAL LAMP WATTAGE**

## ■ emergency heads

The **EST** is supplied with two (2) top-mounted heads in incandescent and LED lamp options. LED options include: MR16 lamps in die-cast aluminum BTMR heads or thermoplastic SR heads, sealed beam LED lamps in thermoplastic LR PAR36 heads or square die-cast TESTA lamp heads. Lamp heads can be mounted on the top or the sides of the unit. The LR lamp heads are available in standard white finish to match the cabinet. BTMR, TESSQ and SR lamp heads are available in black and white finish only. LR and BTMR heads feature a unique twist-locking collar that securely holds the lens and facilitates quick and easy re-lamping.

## ■ electrical

**BATTERY:**The EST is designed with a maintenance free, sealed valve regulated lead acid battery that provides a minimum emergency duration of 90 minutes (for the listed rating). Recharge time of the battery is 24 hours. An optional Nickel-Cadmium battery is available. The operating temperature is 50°F to 104°F (10°C to 40°C).

## ■ mechanical

The **EST** is supplied standard in a durable white powder coat finish. Black and custom color options are available, please specify. Remote lamp loads are connected to the emergency power supply with sturdy terminal connectors. These connectors allow for a large gauge of wire to be used increasing the flexibility of installation. Compatible with BTMR and TESTA remotes. Consult factory for additional options.

## ■ autotest

The Beghelli Autotest system (optional) performs one 5 minute discharge test monthly. Every 6 months two 90 minute discharge tests are performed. This tests both full battery capacity and recharge capability, as required by the fire code. The information is communicated simply and intuitively to maintenance personnel via a single multi-color LED. The Beghelli Autotest system also includes 0, 5, 10 or 20 minute time delay function to allow HID lighting to re-strike. IRT one button press tests unit for 90 minutes per code.

## ■ warranty

The **EST** comes with a 3-year factory warranty. Lamps are not covered under warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.

## ■ lamp selection

	6V	12V	24V
Incandescent <sup>1</sup>	7.2, 9W	9, 12, 18W	9, 18W
Quartz Halogen (Q) <sup>2</sup>	12W	12, 20W	n/a
MR16 LED <sup>3</sup>	5, 7W	2, 5, 7W	5, 7W
TESSQ <sup>4</sup>	n/a	5, 9, 14, 30W	5, 9, 14, 30W
SEALED BEAM LED <sup>5</sup>	n/a	6W	6W

NOTE 1: Available in LR lamp heads (ex: 2LR9W) and SR lamp heads (ex: 2SR18W)

NOTE 2: Available in LR lamp heads (ex: 2LR12Q) and SR lamp heads (2SR20Q)

NOTE 3: Available in SR lamp heads (ex: 2SR7WLED) and BTMR lamp heads (ex: 2BTMR2WLED)

NOTE 4: Nomenclature example: 2TESSQ9W

NOTE 5: Available in LR lamp heads (ex: 2LR6WLEDSB)

## ■ model rating guide Pb-A (Capacity)

Model	Input Voltage	Wattage Rating 90 Minutes
EST627	6	27
EST636	6	36
EST660	6	60
EST672	6	72
EST6100	6	100
EST6120	6	120
EST1227	12	27
EST1236	12	36
EST1260	12	60
EST1272	12	72
EST12120	12	120
EST12140	12	140

## ■ model rating guide Ni-Cd (Capacity)

Model	Input Voltage	Wattage Rating 90 Minutes
EST642	6	42
EST654	6	54
EST690	6	90
EST1242	12	42
EST1290	12	90
EST12130	12	130
EST24100	24	100

\* ENSURE MAX WATTS IS > TOTAL LAMP WATTAGE