ESM

INDOOR

Job/Location: _____

Contractor: _____

Prepared By: _____

Job Type: _____

Date: _____

■ specifications: internal

The **ESM** 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.
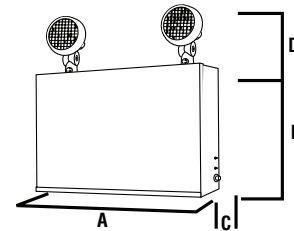
■ specifications: external

The **ESM** is constructed with a 20 gauge steel cabinet. Terminal connectors allow for larger gauge wires to be connected for remote loads. The universal mounting pattern stamped into the back of the unit allows for direct mounting to various conduit boxes. Key hole slots are also provided for additional mounting possibilities. Stamped conduit knockouts are supplied standard on all **ESM** units, providing the widest range of options for AC power source connection.

Unit Size	A	B	C
(6V 18-50W) (12V 36-72W)	12" (305mm)	4 3/4" (119mm)	2 1/2" (64mm)
(6V 72-90W) (12V 90W)	10" (254mm)	9" (229mm)	3 1/4" (83mm)
(6V 100-180W) (12V 100-180W) (24V 144-180W)	15" (385mm)	9 1/2" (241mm)	4 1/4" (105mm)
(12V 200-360W) (24V 320W)	13" (330mm)	10" (254mm)	8" (203mm)
(24V 360-720W)	18" (457mm)	10" (254mm)	8 3/8" (213mm)

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

■ ordering logic

Series	Operation	Pb-A (Capacity)	Ni-Cd (Capacity)	Emergency Heads	Lamps	Options
ESM	6V	12 (6V)	22 (6V)	2LR (double PAR36)	See lamp selection	AM (ammeter)
	12V	18 (6V)	42 (6V, 12)	1LR (single PAR36)	on next page	AT (autotest)
		27 (6V, 12V)	54 (6V)	2SR (double PAR18)		B (black finish)
		36 (6V, 12V)	90 (6V, 12V)	1SR (single PAR18)		BZ (buzzer)
		60 (6V, 12V)		BTMR2 (double, MR16)		CC (custom color- specify)
				BTMR1 (single, MR16)		CS120 (cord set, 120V only)
				2AR (AL, double, PAR36)		FAI[1] (fire alarm interface)
				1AR (AL, double, PAR36)		IRT[2] (infrared testing)
				0 (no heads)		NC[3] (Ni-Cd)
						TP (tamper proof screws)
						TD[4] (time delay - specify 5, 10, 15 min)
						VM (voltmeter)

NOTE 1: Specify type- open/closed dry contact.
NOTE 2: HHC (controller for IRT) should be ordered seperately (item code:476000021).
NOTE 3: Must select NC from options and indicate wattage/voltage from Ni-Cd column.
NOTE 4: Must specify at time of order. Specify voltage

EXAMPLE: ESM-6-18-2LR-8W(H)-AT
DESCRIPTION: 6V, 18W, double PAR36, 2x8W halogen, autotest

■ emergency heads

The **ESM** is supplied with two (2) top mounted LR PAR36 style 9W heads. Optional heads available include the SR PAR18 style heads or the BTMR white steel heads utilizing MR16 lamps. Lamp heads can be mounted either on the top or on the sides of the unit allowing for up to four (4) heads to be mounted on the largest units (2 top, 2 side or 3 on top). The lamp head styles are constructed of high impact thermoplastic in a color matching the finish of the cabinet (white is standard). Both head types feature a unique twist locking collar that securely holds the lens and facilitates quick and easy re-lamping.

■ specifications: electrical

BATTERY: The **ESM** 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.

■ specifications: mechanical

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. The **ESM** is supplied standard in a durable white powder coat, baked finish. Other colors are available, including custom color matching, please specify.

■ 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 restrike. IRT one button press tests unit for 90 minutes per code.

■ warranty

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

■ lamp selection

	6V	12V
Incandescent	7.2W, 9W	9W, 12W, 18W
Halogen (H)	10W, 12W, 20W	12W, 20W 55W - PAR36 Only
MR16	N/A	20W, 35W, 50W
MR16 LED (SR or BTMR)	5W, 7W	5W, 7W

■ model rating guide Pb-A (Capacity)

Model	Input Voltage	Wattage Rating 90 Minutes
ESM-6-12	6	12
ESM-6-18	6	18
ESM-6-27	6	27
ESM-6-36	6	36
ESM-6-60	6	60
ESM-12-27	12	27
ESM-12-36	12	36
ESM-12-65	12	65

■ model rating guide Ni-Cd (Capacity)

Model	Input Voltage	Wattage Rating 90 Minutes
ESM-6-22	6	22
ESM-6-42	6	42
ESM-6-54	6	54
ESM-6-90	12	90
ESM-12-42	12	42