

EM13

Industrial Application Emergency

INDOOR



Specifications: Internal

The **EM13** is a specification grade unit, available with 6, 12 and 24 volt battery configurations, designed with two stage charging. The charging system offers superior performance and energy efficiency with solid state transfer, supplied with 120/277V.

Specifications: External

The **EM13** is constructed with a 20 gauge steel cabinet. Terminal connectors allow for larger gauge wires to be connected for remote loads. White finish is standard (other colors optional). Emergency lighting heads are molded from high impact thermoplastic in a matching color; PAR36 (LR) style heads are standard. PAR18 (SR) style heads are optional. MR16 (BTMR) are also offered. Universal mounting pattern and key hole slots are stamped on the back and conduit knockouts on the sides of each unit.

Emergency Heads

The **EM13** unit is supplied with two [2] top mounted PAR36 small style 9 watt thermoplastic heads in a matching color, or BTMR white steel heads utilizing MR16 lamps are also available option. SR PAR18 small style thermoplastic or BTMR white steel heads utilizing MR16 lamps are also an available option.

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 sides). Both head types feature a unique locking twist collar that securely holds the lens and facilitates quick and easy re-lamping.

Warranty

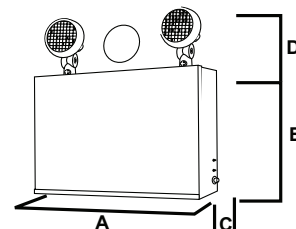
The **EM13** comes with a 3-year factory warranty. Lamps are not covered under the warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.

Ordering Logic

Series	Pb-A (Capacity)	Ni-Cd ³ (Capacity)	Emergency Heads	Lamps	Options
EM136V	120 (6V)	130 (12V)	3LR (triple PAR36)	See lamp selection	AM (ammeter) AT (autotest) B (black finish) BZ (buzzer) CC (custom color- specify) CS120 (cord set, 120V only) FAI ¹ (fire alarm interface) IRT ² (infrared testing) NC ³ (Ni-Cd) TP (tamper proof screws) TD ⁴ (time delay - specify 5, 10, 15 min) VM (voltmeter) ACTB (terminal block ac) DCTB (terminal block dc)
EM1312V	140 (12V)	200 (12V, 24V)	2LR (double PAR36)		
EM1324V	160 (12V)		1LR (single PAR36)		
	180 (12V)		2SR (double PAR18)		
	200 (6V)		1SR (single PAR18)		
	280 (24V)		2BTMR (double, MR16)		
	360 (12V, 24V)		1BTMR (single, MR16)		
			2SRA (AL, double, PAR36)*		
			1SRA (AL, single, PAR36)*		
			0 (no heads)		



Dimensions (in,mm)



Unit Size	A	B	C
(12V 140W) (12V 200W / 24V 200W)	15" (385mm)	9 1/2" (241mm)	4 1/4" (105mm)
(6V-200W) (12V 140W-160W)	13" (330mm)	10" (254mm)	8" (203mm)
(12V 180-360W) (24V 280-360W)	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. Cabinet size for 12V 160W Pb-A varies. Please contact factory for sizing information.

Lamp Selection

	6V	12V	24V
Incandescent	5.4,	9, 12, 18W	9, 18W
Halogen (H)	10, 12W, 20W	12, 20W 55W - PAR36 Only	12, 20W 70W-PAR36 Only
MR16	6, 10W	10, 12, 20, 35W, 50W	12, 20, 35W, 50W
MR16 LED (SR or BTMR)	5, 7W	2, 5, 7W	5, 7W

Specifications: Electrical

BATTERY: The **EM13** 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 less than 48 hours. The maximum working temperature is 45°C. The minimum working temperature is 10°C. Nickel cadmium batteries are available as an option.

CIRCUIT: The **EM13** utilizes 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. The charger also has brownout and short circuit protection. Charger status is easily determined via a dual diagnostic LED display which indicates AC/ON and High Charge. An external push button test switch allows maintenance personnel to quickly determine the operational status of the unit and lamp load. The charger also has brownout and short circuit protection.

Specifications: Mechanical

The **EM13** is constructed with a 20 gauge steel cabinet in a white powder coat finish, other colors and custom color matching are available. Universal mounting pattern and key hole slots are stamped on the back and conduit knockouts on the sides of each unit.

Autotest

The Autotest system 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 Autotest system includes 0, 5, 10 or 20 minute time Autotest delay function to allow HID lighting to restrike. IRT one button press tests unit for 90 minutes per code.

Model rating guide Pb-A (Capacity)

Model	Input Voltage	Wattage Rating 90 Minutes
EM13-6-120	6	120
EM13-6-200	6	200
EM13-12-140	12	140
EM13-12-160	12	160
EM13-12-180	12	180
EM13-12-360	12	360
EM13-24-280	24	280
EM13-24-360	24	360

Model rating guide Ni-Cd (Capacity)

Model	Input Voltage	Wattage Rating 90 Minutes
EM13-12-130	12	27
EM13-12-200	12	36
EM13-24-200	12	27