

Job Name: _____
 Type: _____
 Part #: _____
 Notes: _____

EM13

STANDARD



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

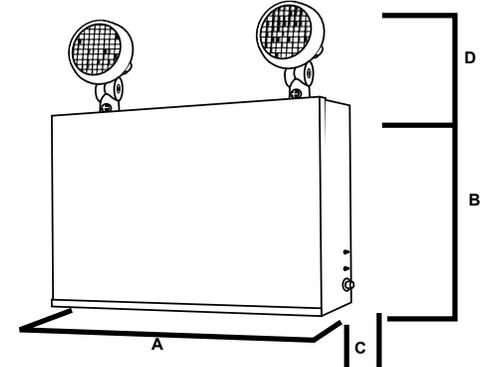
The EM13 is constructed with a 20 gauge steel cabinet. Terminal connectors allow for larger gauge wires to be connected for remote loads. White finish is standard (other colors optional). Emergency lighting heads are molded from high impact thermoplastic in a matching color; PAR36 (LR) style heads are 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 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 five (5) heads to be mounted on the largest units (3 top, 2 side). 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.



DIMENSIONS



Ordering Logic

PRODUCT NUMBER EHWE		Operation:	Battery:		Emergency Heads:	Lamps:	Options:
Series	Operation	Lead Acid	Nicad	Emergency Heads	Lamps	Options	
EM13	6V	120 (6V)	130 (12V)	2LR (double PAR36)	See lamp selection on next page	AM (ammeter)	
	12V	140 (12V)	200 (12V, 24V)	1LR (single PAR36)		AT (autotest)	
	24V	160 (12V)	180 (12V)	2SR (double PAR18)	B (black finish)		
				1SR (single PAR18)	BZ (buzzer)		
				2BTMR (double, MR16)	CC (custom color- specify)		
		280 (24V)	1BTMR (single, MR16)	CS120 (cord set, 120V only)			
		360 (12V, 24V)	2SRA (AL, double, PAR36)*	FAI ¹ (fire alarm interface)			
	1SRA (AL, single, PAR36)*		HHC (hand held controller)				
			0 (no heads)	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)				

NOTE 1: Specify type- open/closed dry contact.

NOTE 2: Specify voltage.

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

** Aluminum heads not rated for wet location.

DESCRIPTION: 12V, 140W, double PAR36, 20W halogen lamps, time delay

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.

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.

Lamp Selection: (seal beam only in LR PAR36 style head)

	6V	12V	24V
Incandescent	9W 18W - PAR36 Only	9, 12, 18W 25W - PAR36 Only	9, 18W
Halogen (H)	8, 10, 12W, 20W	8, 12, 20W 35 & 55W - PAR36 Only	12, 20W 70W-PAR36 Only
Sealed Beam Tungsten (SB)	9, 25, 30W	12, 25W, 30, 35W	N/A
Sealed Beam Halogen (HSB)	8, 12, 20W	8, 12, 30W	N/A
MR16	6, 10W	10, 12, 20, 35W, 50W	12, 20, 35W, 50W
MR16 LED (SR or BTMR)	5, 7W	2, 5, 7W	5, 7W

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

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.