



# MFC Series

Indoor Industrial Application Emergency



PROJECT: \_\_\_\_\_  
 FIXTURE TYPE: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 CONTACT/PHONE: \_\_\_\_\_



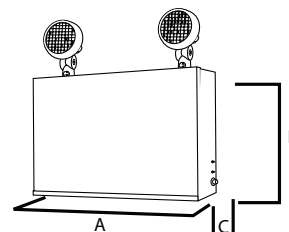
## SPECIFICATIONS: INTERNAL

The MFC 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 MFC 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). Standard PAR36 (LR) emergency lighting heads are molded from high impact thermoplastic in a matching color. MR16 (2MRB) and SR LED module heads are also offered. Universal mounting pattern and key hole slots are stamped on the back and conduit knockouts on the sides of each unit.

## DIMENSIONS (IN, MM)



Unit Size	A	B	C
(6V 120W)	13.5" (343mm)	10 1/8" (257mm)	4 1/4" (105mm)
(6V-200W) (12V 140W)	13" (330mm)	10 1/8" (257mm)	8 1/2" (216mm)
(12V/ 24V 200W-360W)	18 1/8" (460mm)	10 1/8" (257mm)	8 1/2" (216mm)



## ORDERING INFORMATION

Series	Operation	Pb-A (Capacity)	Ni-Cd <sup>3</sup> (Capacity)	Emergency Heads	Lamps	Options
MFC	6 (6V)	120 (6V)	130 (12V)	0 (no heads)	See lamp selection	AM (ammeter)
	12 (12V)	140 (12V)	200 (12V, 24V)	2LR (double PAR36)	on next page	SD (self-diagnostic)
	24 (24V)	160 (12V)		3LR (triple PAR36)		ACTB (terminal block AC)
		180 (12V)		2SR (double LED module)		BZ (buzzer)
	200 (6V)		2MRB (double, MR16 bullet style)			CC (custom color- specify)
	280 (24V)		2MEGASQ (double, MEGA)			CS120 (cord set, 120V only)
	360 (12V, 24V)		1MEGASQ (single, MEGA)			DCTB (terminal block DC)
						FAI <sup>1</sup> (fire alarm interface)
						IRT <sup>2</sup> (infrared testing)
						NC <sup>3</sup> (Ni-Cd)
						TP (tamper proof screws)
						TD <sup>4</sup> (time delay - specify 5, 10, 15 min)
						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.  
 NOTE 3: For nickel-cadmium battery, select NC from options and capacity from Ni-Cd column  
 NOTE 4: Must specify input voltage and time delay (10 min standard)

EXAMPLE: MFC-12-140-2LR9W-SD



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## EMERGENCY HEADS

The MFC unit is supplied standard with two (2) top mounted 9W incandescent PAR36 lamps in LR style thermoplastic in a matching color. Optional LED lamp heads include: MRB with MR16 LED lamps, LR with sealed beam LED, SR thermoplastic LED heads and MEGA die-cast aluminum square lamp heads. 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). LR and MRB heads feature a unique locking twist collar that securely holds the lens and facilitates quick and easy re-lamping.

## SPECIFICATIONS: ELECTRICAL

**BATTERY:** The MFC 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 MFC 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 MFC 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.

## WARRANTY

The MFC 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	24V
Incandescent (LR- PAR36)	7.2, 9W	9, 12, 18W	9, 18W PAR36 Only
Quartz (LR - PAR36)	12W	12, 20W	N/A
MR16LED (MRB, SR, PAR18)	5, 7W	2, 5, 7W	5, 7W
MEGA	N/A	5, 9, 14, 30W	5, 9, 14, 30W
Sealed Beam LED (LR - PAR36 only)	N/A	6W	6W

## MODEL RATING GUIDE PB-A (CAPACITY)

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

## MODEL RATING GUIDE NI-CD (CAPACITY)

Model	Input Voltage	Wattage Rating 90 Minutes
MFC-12-130	12	130
MFC-12-200	12	200
MFC-24-200	24	200

## SELF-DIAGNOSTIC

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