

CHLORIDE SYSTEMS

TYPE: _____

CATALOG NO.: _____

GENERAL DESCRIPTION

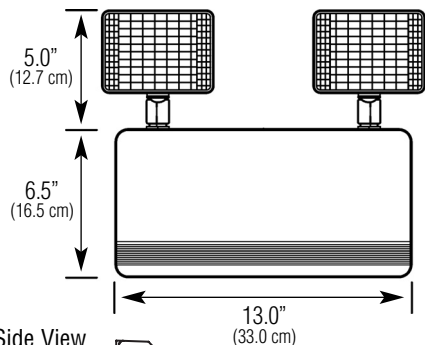
The 6MF/12MF Series provides a proven, reliable source of egress lighting housed in a classically designed package. Available in a wide variety of battery wattages, the 6MF/12MF Series incorporates high performance electronics in an attractive, impact-resistant thermoplastic housing.

ILLUMINATION

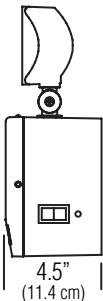
Illumination is accomplished with up to three lamp heads mounted on the top of the unit. Most often specified is Chloride's "J" Series rectangular lamp heads. The "J" Series lamp heads incorporate a high performance parabolic reflector with a wedge base tungsten lamp allowing maximum spacing between units along a path of egress. A complete offering of Par 36 sealed beam tungsten or halogen lamp heads are also available.

DIMENSIONS

Front View



Side View



Dimensions are approximate and subject to change.

6MF/12MF Series

Thermoplastic Emergency Lighting Units

6 and 12 Volt, 18 to 50 Watts

Lead Calcium or Nickel Cadmium Battery



HOUSING

Constructed of impact resistant, UL 94 V-0, 5 VA white thermoplastic.

Universal J-box mounting pattern, keyhole slots or shelf mounting.

Includes a low profile test switch and AC indicator light mounted on the side of unit.

ELECTRONICS

120/277 VAC dual voltage input with surge-protected, solid-state circuitry provides for a reliable charging system.

Lead calcium units utilize a solid-state, fully automatic, voltage regulated charger.

Nickel Cadmium units utilize a solid-state, constant voltage charger.

Charging system is complete with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch.

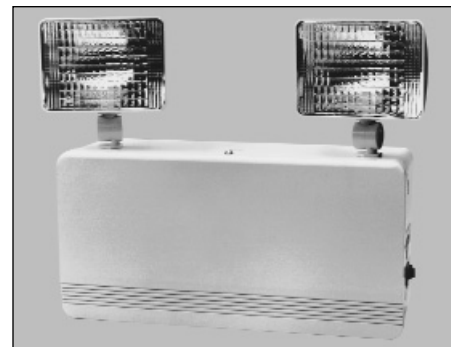
Optional ACCU-TEST Self Diagnostics includes an automatic 3 minute discharge test every 30 days. A manual test is available from 1 to 90 minutes.

BATTERY

Maintenance free, sealed lead calcium battery has an estimated service life of 5 years, and an operating temperature range of 65°F (19°C) to 85°F (30°C)

Maintenance free, sealed nickel cadmium battery has an estimated service life of 10 years, and an operating temperature range of 20°F (-7°C) to 95°F (35°C)

Batteries supply 90 minutes of emergency power



SHOWN: 6MF18WJ962

CODE COMPLIANCE

UL 924 listed

NFPA 101, NEC, BOCA, OSHA and IBC illumination standards

Optional Damp Location listing available on the following models: 6MF18, 6MF25, 6MF36, 6MF50, 12MF36, 12MF50

ELECTRICAL SPECIFICATIONS

Input power requirements

120 VAC - 0.18 amps, 20 watts

277 VAC - 0.08 amps, 20 watts

WARRANTY

Three year full electronics warranty

One year full plus four year prorated lead calcium battery warranty

Five year full plus five year prorated nickel cadmium battery warranty

ORDERING INFORMATION (EXAMPLE: 6MF18WJ962)

SERIES/ BATTERY	DC WATTAGE	HOUSING COLOR	LAMP HEADS	# OF HEADS	FACTORY INSTALLED OPTIONS
6MF = 6 Volt, Lead Calcium	6 Volt, Lead Calcium	W = White	6 Volt	2 = Two	A = Ammeter ²
6NMF = 6 Volt, Nickel Cadmium	18 = 18 Watt		J66 = 5.4 Watt	1 = One	ACF1 = 120 VAC Fuse
12MF = 12 Volt, Lead Calcium	25 = 25 Watt		J76 = 7.2 Watt	blank = No Heads	ACF2 = 277 VAC Fuse
12NMF = 12 Volt, Nickel Cadmium	36 = 36 Watt		J96 = 9 Watt		ACP1 = 120 VAC Power Switch
	50 = 50 Watt		12 Volt		ACP2 = 277 VAC Power Switch
	6 Volt, Nickel Cadmium		J912 = 9 Watt		AD = ACCU-TEST Self-Diagnostics
	14 = 14 Watt		J1212 = 12.5 Watt		ADAL = ACCU-TEST with Alarm
	18 = 18 Watt		J1812 = 18 Watt		ADTD = ACCU-TEST with Time Delay ³
	25 = 25 Watt				DCP = DC Power Switch
	50 = 50 Watt				DL = Damp Location Listing (Lead Calcium Only) ²
	12 Volt, Lead Calcium				EX = Special Input Transformer (Specify voltage & frequency) ¹
	36 = 36 Watt				I = Lamp Heads Installed at Factory
	50 = 50 Watt				TD1 = 120 VAC Time Delay
	12 Volt, Nickel Cadmium				TD2 = 277 VAC Time Delay
	25 = 25 Watt				V = Voltmeter ²
	50 = 50 Watt				

ACCESSORIES
(order as a separate line item)
MSSHLEFW = White Mounting Shelf

NOTES:
1) Some option combinations may impact UL listing. Consult factory for specifics.
2) Not available with AD, ADAL, or ADTD options.
3) 15 minute delay

Specification Data for 6MF/12MF Series Thermoplastic Emergency Lighting Units

HOUSING

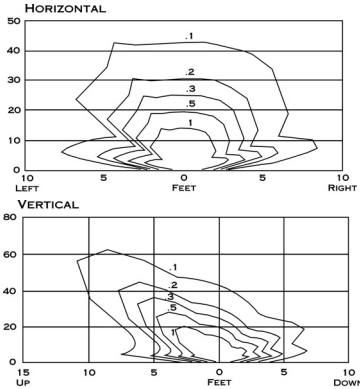
Constructed of impact resistant, UL 94 V-0, 5 VA white thermoplastic housing.

Provides installation flexibility with its J-box mounting pattern and keyhole slots. Unit can also be shelf-mounted.

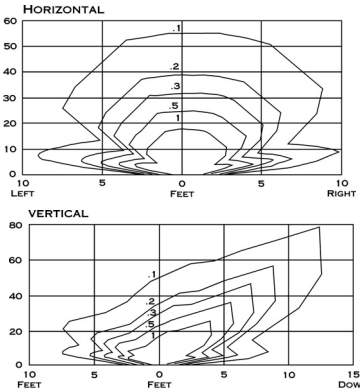
The suggested lamp head is the "J" Series rectangular wedge base tungsten lamp head. To order lamp heads other than the suggested "J" head, refer to Options/Accessories section.

LAMP HEAD PHOTOMETRICS

(For J96, suggested head for 6MF and 6NMF)



(For J912, suggested head for 12MF and 12NMF)



ELECTRONICS

120/277 VAC dual voltage input with surge-protected, solid-state charging circuitry provides for a reliable charging system. The charging system is furnished with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch.

The low voltage disconnect (LVD) feature will disconnect the battery prior to an unacceptable deep discharge, but not before the required 90 minute emergency operation.

The AC lockout feature prevents battery drain prior to the initial energizing of utility power, and allows the installer to complete all wiring and electrical connections without energizing the emergency circuit.

The brownout protection circuitry will automatically switch the unit into the emergency mode if the utility voltage sags below 20% of nominal.

Battery charging circuitry is entirely solid-state, and utilizes a constant current charger for nickel cadmium battery units. A fully automatic, voltage regulated charger is used for lead calcium battery units. Battery recharge time after full discharge is less than the required UL 924 standard.

Line sensitive electronics cause an instantaneous transfer to battery power if utility power is lost, or a brownout condition is detected. When line voltage is present and stabilized, the transfer circuitry switches back to normal operation and begins recharging the battery. The transfer circuitry can be tested via a momentary test switch located on the housing.

CODE COMPLIANCE

The 6MF/12MF Series meets or exceeds all performance standards as required by UL 924, NFPA 70, NFPA 101, NEC, BOCA, OSHA and IBC. In addition, the units carry the CUL listing for 30 minute operation.

SELF-DIAGNOSTICS

The ACCU-TEST Self-Diagnostics option conducts automatic and manual tests, and indicates real time status of the lamp, battery and charger via LED indicator lamps. Automatic tests include: Systems analysis every 10 seconds, with actual load tests performed for a 3 minute duration every 30 days. A manual test is available from 1 to 90 minutes.

BATTERY

Maintenance free, sealed nickel cadmium or lead calcium batteries are available.

Standard sustained emergency operation is for 90 minutes with the illumination source providing full light output.

The suggested operating temperature range for nickel cadmium batteries is 20°F (-7°C) to 95°F (35°C), and battery has an expected service life of 10 years. The suggested operating temperature range for sealed lead calcium batteries is 65°F (19°C) to 85°F (30°C), and the battery has an expected service life of 5 years.

ELECTRICAL SPECIFICATIONS

Input power requirements

120 VAC - 0.18 amps, 20 watts

277 VAC - 0.08 amps, 20 watts

OPERATION

DC Voltage	Unit	Suggested Lamp Head	Watts to 87½ of Rated Voltage*			
			1½ hrs.	2 hrs.	4 hrs.	8 hrs.
6	6MF18W	J96	18	13.5	7	—
	6MF25W	J96	25	19	9.5	—
	6MF36W	J96	36	27	14	7.2
	6MF50W	J96	50	37.5	19	10
	6NMF14W	J96	14	10.5	5.5	—
	6NMF18W	J96	18	13.5	7	—
	6NMF25W	J96	25	19	9.5	—
	6NMF50W	J96	50	37.5	19	10
12	12MF36W	J912	36	27	14	7.2
	12MF50W	J912	50	37.5	19	10
	12NMF25W	J912	25	19	9.5	—
	12NMF50W	J912	50	37.5	19	10

* Per NEC Specifications

SUGGESTED SPECIFICATION

Furnish and install Chloride's emergency lighting unit model _____. The unit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and the National Electrical Code (NEC).

INSTALLATION AND OPERATION - Unit shall be easily field connected to a 120 or 277 VAC, 60 hertz, unswitched power source. Installation must comply with the NEC as well as other applicable codes. Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination level for a minimum period of 90 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes.

CHARGER - Product shall utilize either a constant current (nickel cadmium) or fully automatic, voltage regulated (lead calcium) charging system. The charging system shall maintain the battery at full capacity without the need for periodic exercising or equalization. The following features shall be standard: Low voltage disconnect (LVD), brownout protection and AC lockout.

BATTERY - The battery shall be either a maintenance free, sealed nickel cadmium or lead calcium battery. The nickel cadmium battery shall utilize sintered plate construction and polypropylene separators for trouble-free operation in ambient temperatures up to 95°F (35°C). The lead calcium battery shall provide trouble-free operation in temperatures up to 85°F (30°C). Nickel cadmium batteries shall be supplied with a five year full warranty, and sealed lead calcium batteries shall be supplied with a one year full warranty.

HOUSING - The unit housing shall be constructed of impact resistant, UL 94 V-0, 5 VA white thermoplastic.



CHLORIDE
SYSTEMS

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