

CHLORIDE SYSTEMS

TYPE: _____

CATALOG NO.: _____

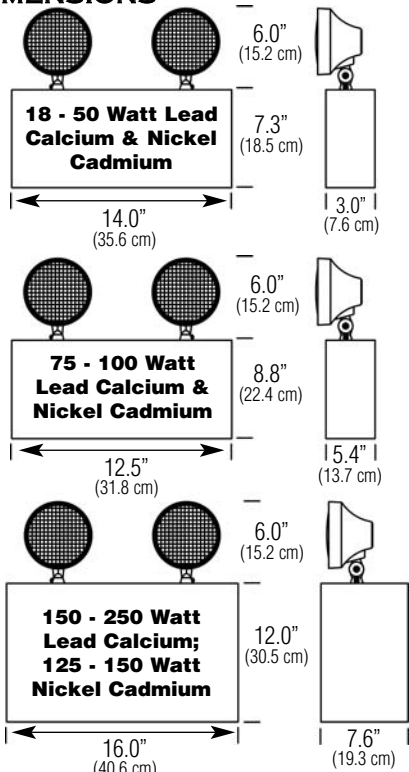
GENERAL DESCRIPTION

The CMF/TMF Series provides a field tested, reliable source of egress lighting for the commercial and light industrial markets. Available in a wide range of battery wattages, these units incorporate high performance electronics in a classically designed package. The CMF/TMF Series is a Made in the USA product.

ILLUMINATION

Illumination is accomplished with lamp heads mounted on the top of the unit. The CMF/TMF Series can accommodate up to three lamps heads. Most often specified is Chloride's round thermoplastic tungsten lamp head.

DIMENSIONS



Dimensions are approximate and subject to change.

CMF/TMF Series

Steel Emergency Lighting Units

6 and 12 Volt, 18 to 250 Watts

Lead Calcium or Nickel Cadmium Battery



HOUSING

Constructed of 20 gauge (18-100w) or 18 gauge (125-250w) steel with a white corrosion-resistant, epoxy powder coat finish.

Available with a wide range of fully adjustable PAR 36 sealed beam tungsten or halogen; wedge base tungsten or halogen lamp heads.

Easily mounted with key hole slots or shelf mounting. Universal J-box mounting on 18 watt to 50 watt cabinets.

Includes a low profile test switch on the side of unit.



SHOWN: CMF50WWTB2

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 current charger.

High capacity units operate a complete line of remote fixtures.

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

CODE COMPLIANCE

UL 924 listed
NFPA 101, NEC, BOCA, OSHA and IBC illumination standards
Chicago Approved City Plan No. 9187E, 9188E

ELECTRICAL SPECIFICATIONS

Input power requirements

6 and 12 volt

18-50 watt units - 0.15 amps (120 VAC)
0.065 amps (277 VAC)

75-125 watt units - 0.50 amps (120 VAC)
0.22 amps (277 VAC)

12 volt

150-250 watt units - 0.67 amps (120 VAC)
0.29 amps (277 VAC)

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: CMF18WWTB2)

SERIES/ BATTERY	DC WATTAGE	HOUSING COLOR	LAMP HEADS	# OF HEADS	FACTORY INSTALLED OPTIONS
CMF = 6 Volt, Lead Calcium 18 = 18 Watt 25 = 25 Watt 36 = 36 Watt 50 = 50 Watt	<u>6 Volt, Lead Calcium</u> 36 = 36 Watt 50 = 50 Watt 100 = 100 Watt	W = White	<u>6 Volt, Tungsten, Wedge Base</u> WTA = 5.4 Watt WTD = 7.2 Watt WTB = 9 Watt <u>6 Volt, Tungsten, Sealed Beam</u> WY = 8 Watt WA = 18 Watt WL = 25 Watt WG = 30 Watt <u>12 Volt, Tungsten, Wedge Base</u> WTC = 9 Watt WTE = 12.5 Watt WTF = 17.9 Watt <u>12 Volt, Tungsten, Sealed Beam</u> WNY = 12 Watt WE = 18 Watt WG = 30 Watt	3 = Three 2 = Two 1 = One Blank = No Heads	A = Ammeter ² ACF1 = 120 VAC Fuse ACF2 = 277 VAC Fuse ACP1 = 120 VAC Power Switch ACP2 = 277 VAC Power Switch AD = ACCU-TEST Self-Diagnostics ADAL = ACCU-TEST with Alarm ADTD = ACCU-TEST with Time Delay ⁴ DCP = DC Power Switch ³ EX = Special Input Transformer ¹ (Specify voltage & frequency) I = Factory Installed Lamp Heads (18 - 50 W only) TD1 = 120 VAC Time Delay TD2 = 277 VAC Time Delay V = Voltmeter ²
CNM = 6 Volt, Nickel Cadmium 25 = 25 Watt 36 = 36 Watt 50 = 50 Watt 75 = 75 Watt 100 = 100 Watt	<u>12 Volt, Lead Calcium</u> 25 = 25 Watt 50 = 50 Watt 75 = 75 Watt 100 = 100 Watt <u>12 Volt, Nickel Cadmium</u> 25 = 25 Watt 50 = 50 Watt 75 = 75 Watt 100 = 100 Watt 125 = 125 Watt 150 = 150 Watt				
TMF = 12 Volt, Lead Calcium 50 = 50 Watt 75 = 75 Watt 100 = 100 Watt	<u>6 Volt, Nickel Cadmium</u> 25 = 25 Watt 50 = 50 Watt				
TNM = 12 Volt, Nickel Cadmium					

ACCESSORIES (order as a separate line item)

MLSHELFW = Mounting Shelf 18 - 50W
MJSHELF = Mounting Shelf 75 - 100W
MXSHELF = Mounting Shelf 125 - 250W

NOTES: 1) Some option configurations may impact UL listing. Consult factory for specifics. 2) Not available with AD, ADAL, or ADTD options. 3) Consult factory above 50 watt capacity. 4) 15 minute delay.

Specification Data for CMF/TMF Series Steel Emergency Lighting Units

HOUSING

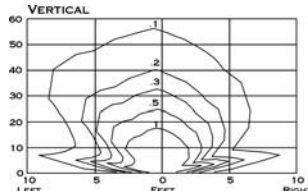
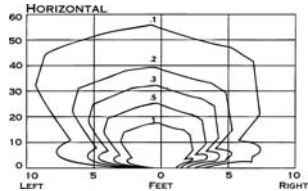
20 gauge (18-100w) or 18 gauge (125-250w) steel housing with epoxy powder coat finish. White finish standard, tan finish optional.

Provides installation flexibility with its J-box mounting pattern (18 - 50 watt units) and keyhole slots. Unit can also be shelf-mounted.

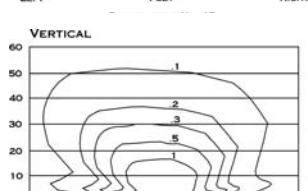
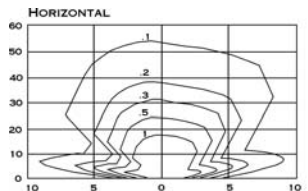
The suggested lamp head is the round thermoplastic lamp head with either wedge base or Par 36 sealed beam tungsten lamps. To order lamp heads other than the suggested head, refer to the options and accessories section.

LAMP HEAD PHOTOMETRICS

(For WTB, suggested head for CMF/CNM up to 50w)



(For WTC, suggested head for TMF/TNM up to 50w)



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 CMF/TMF Series meets or exceeds all performance standards as required by UL 924, NFPA 101, NEC, BOCA, OSHA and IBC. In addition, the CMF and TMF are Chicago Approved -- City Plan No. 9187E, 9188E.

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

18 - 100 watt units - 0.18 amps, 18 watts (120 VAC)
125 - 250 watt units - 0.58 amps, 60 watts (120 VAC)

OPERATION

DC Voltage	Unit	Suggested Lamp Head	Watts to 87½ of Rated Voltage*			
			1½ hrs.	2 hrs.	4 hrs.	8 hrs.
6	CMF18W	WTB	18	13.5	7	—
	CMF25W	WTB	25	19	9.5	—
	CMF36W	WTB	36	27	14	7.2
	CMF50W	WTB	50	37.5	19	10
	CMF75W	WA	75	56.5	28.5	15
	CMF100W	WL	100	75	38	20
	CNM25W	WTB	25	19	9.5	—
	CNM50W	WTB	50	37.5	19	10
	12	TMF36W	WTC	36	27	14
TMF50W		WTC	50	37.5	19	10
TMF100W		WK	100	75	38	20
TMF150W		WK	150	112.5	72	25.5
TMF250W		WK	250	187.5	95	50
TNM25W		WTC	25	19	9.5	—
TNM50W		WTC	50	37.5	19	10
TNM75W		WE	75	56.5	28.5	15
TNM100W		WK	100	75	38	20
TNM125W		WK	125	94	47.5	21.5
TNM150W	WK	150	112.5	72	25.5	

* 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 20 gauge (18-100w) or 18 gauge (125-250w) steel and shall have an epoxy powder coat white finish.



CHLORIDE SYSTEMS

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