



# LM Series

## High Capacity Emergency Lighting Unit

Catalog Number	
Comments	Type

### FEATURES

#### Application

The LM provides emergency lighting for industrial and commercial applications. The LM offers high capacity for higher lamp wattages and remote capability. Offered with 6 and 12 VDC operation and 15 - 130 watts of capacity and multiple optional lamp wattages. The steel housing provides strength and durability.

#### Construction

LM has two housing sizes. Size 1 covers housing capacity of 15 - 40 watts and has 20 gauge corrosion-resistant steel. Size 2 covers housing capacity of 66 - 130 watts and has 18 gauge corrosion-resistant steel. Standard lamp-heads in injection molded flame retardant, UV stabilized thermoplastic. Aluminum lamp-heads offered as optional. Housing and lamp-heads in white color.

#### Installation

Mount through universal knock-out pattern to standard electrical boxes up to 4" square. Also mounts to wall surface through keyhole mounting slots. Wiring terminals and fused distribution board located inside of housing for remote head wiring. Pre-stripped transformer leads provided.

#### Illumination

LM2 provided with 5.4 watt lamps, all other models with 7.2 watt lamps as standard. Lamp voltages of 6 or 12 volt.

#### Warranty

Full 3-year warranty

#### Compliances

UL listed to UL924 Standard

UL Damp Location listed (designated models only)



### ORDERING GUIDE

## LM

SERIES	CAPACITY	BATTERY TYPE	OUTPUT VOLTAGE	RATING	SELF DIAGNOSTICS
	<b>2</b> 10.8 Watts <b>15</b> 15 Watt** <b>16</b> 16 Watt <b>24</b> 24 Watt <b>28</b> 28 Watt* <b>30</b> 30 Watt** <b>33</b> 33 Watt <b>34</b> 34 Watt <b>36</b> 36 Watt <b>40</b> 40 Watt <b>50</b> 50 Watt** <b>56</b> 56 Watt* <b>66</b> 66 Watt <b>68</b> 68 Watt* <b>80</b> 80 Watt <b>100</b> 100 Watt** <b>112</b> 112 Watt* <b>130</b> 130 Watt	<b>Blank</b> Lead Calcium <b>N</b> Nickel Cadmium* * Capacity wattage may change depending upon option	<b>Blank</b> 6 Volt <b>-12V</b> 12 Volt <sup>7</sup>	<b>Blank</b> None <b>D</b> Damp <b>CH</b> Chicago <sup>8</sup>	<b>Blank</b> None <b>I</b> Spectron Self-test / Self-diagnostic Electronics <sup>1</sup>
<b>OPTIONS</b> <b>-V</b> Voltmeter <b>-3</b> 3 Lampheads <sup>1,2</sup> <b>-4</b> 4 Lampheads <sup>1,2,6</sup> <b>-0</b> 0 Lampheads <sup>1,2,3</sup> <b>-A31</b> Aux 3-conductor cord-120 volt <b>-A32</b> Aux 3-conductor cord-277 volt <b>-24K</b> 220/240 VAC, 60Hz <sup>4</sup>					
<b>OPTIONAL LAMPS</b> <b>SRHSW0608</b> 6V, 8W Halogen <b>SRHSW0612</b> 6V, 12W Halogen <b>SRHSW0618</b> 6V, 18W Incandescent <b>SRHSW0620</b> 6V, 20W Halogen <b>SRHSW0625</b> 6V, 25W Incandescent <b>SRHSW1208</b> 12V, 8W Halogen <b>SRHSW1212</b> 12V, 12W Halogen <b>SRHSW1218</b> 12V, 18W Incandescent <b>SRHSW1225</b> 12V, 25W Incandescent <b>SRHSW1235</b> 12V, 35W Incandescent <b>AHDSW1250</b> 12V, 50W Halogen					

#### Ordering Notes:

- <sup>1</sup>Not available with LM2 model.
- <sup>2</sup>Not available with LM15N, LM16 or LM24CH models.
- <sup>3</sup>Note: Spectron models with over 80 watts of capacity require a minimum load of 35 watts for accurate lamp failure indications.
- <sup>4</sup>Not available with LM15N, LM24CH, LM30N, LM36CH, LM50N, LM100N, LM112D and LM130 models.
- <sup>5</sup>Spectron not available with Nickel-Cadmium batter models.
- <sup>6</sup>Not available with LM28D or LM36CH models.
- <sup>7</sup>Not available with LM2, LM15, LM16, LM28, LM30 and LM33 models.
- <sup>8</sup>Available on LM24 and LM36 models only.

### ACCESSORIES - Order Separately

Model	Description
40G	Wire Guard
SRHSW <sup>8</sup>	Single Matching Remote Head (white)
SRHDW <sup>8</sup>	Twin matching remote Head (white)

To order metal lamp heads, replace SRH with AHD. 50W is available with metal heads only.

To order two optional, non-standard lamps on the fixture, suffix catalog number.

Example: LM100-SRHSW0612





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### UNIT CAPACITY SELECTOR

Standard Models	DC Volts	Standard Lamp	Enclosure Style	Remote Capacity	Total Watts For:			
					1½ Hours	2 Hours	3 Hours	4 Hours
LM2	6	5.4W	1	No	10.8	--	--	--
LM16	6	7.2W	1	No	16	--	--	--
LM33	6	7.2W	1	Yes	33	25	17	13
LM40	6	7.2W	1	Yes	40	31	21	16
LM66	6	7.2W	2	Yes	66	51	35	27
LM80	6	7.2W	2	Yes	80	62	43	33
LM130	6	7.2W	2	Yes	130	101	70	54
LM40-12V	12	7.2W	1	Yes	40	31	21	16
LM66-12V	12	7.2W	2	Yes	66	51	35	27
LM80-12V	12	7.2W	2	Yes	80	62	43	33
LM130-12V	12	7.2W	2	Yes	130	101	70	54

Damp Location Models	DC Volts	Standard Lamp	Enclosure Style	Remote Capacity	Total Watts For:			
					1½ Hours	2 Hours	3 Hours	4 Hours
LM28D	6	7.2W	1	Yes	28	21	15	11
LM34D	6	7.2W	1	Yes	34	26	18	14
LM56D	6	7.2W	2	Yes	56	43	30	21
LM68D	6	7.2W	2	Yes	68	53	36	28
LM112D	6	7.2W	2	Yes	112	87	60	47
LM34D-12V	12	7.2W	1	Yes	34	26	18	14
LM56D-12V	12	7.2W	2	Yes	56	43	30	21
LM68D-12V	12	7.2W	2	Yes	68	53	36	28
LM112D-12V	12	7.2W	2	Yes	112	87	60	47

Nickel Cadmium Models	DC Volts	Standard Lamp	Enclosure Style	Remote Capacity	Total Watts For:			
					1½ Hours	2 Hours	3 Hours	4 Hours
LM15N	6	7.2W	1	No	14.4	--	--	--
LM30N	6	7.2W	1	Yes	30	25	17	13
LM50N	6	7.2W	1	Yes	50	42	29	22
LM50N-12V	12	7.2W	1	Yes	50	42	29	22
LM100N-12V	12	7.2W	1	Yes	100	85	59	46

City of Chicago Models	DC Volts	Standard Lamp	Enclosure Style	Remote Capacity	Total Watts For:			
					2 Hours	3 Hours	4 Hours	
LM24CH	6	12W	1	No	24	--	--	
LM36CH	6	12W	1	Yes	36	--	--	
LM36CH-12V	12	12W	1	Yes	36	--	--	

### SPECIFICATIONS

#### Standard Lamps

LM2 provided with 5.4 watt incandescent PAR 36 sealed beam type lamps, all others with 7.2 watt incandescent PAR 36 sealed beam type lamps in 6 or 12VDC.

#### Electronics

Dual voltage input of 120/277VAC, 60 Hz. Includes a fully automatic constant voltage, current limited charger with transformer isolation and low battery voltage disconnect. Transfer contact through electric relay. Power distribution made with fused leads through internally located distribution board. Maximum power consumption of 20 watts (all models). Test initiated by means of integral test switch. AC-on indicated by LED. AC lock out provision prevents discharge of battery at installation until power is present.

#### Optional Spectron® Self-Test/Self Diagnostics

Provides automatic flashing fault detection for battery, charger,

transfer circuit and lamps. Conducts automatic 1-minute self-test every 28 days and a 30-minute self-test every 6 months. Automatic transfer for brownout conditions and 15-minute retransfer delay. Test switch allows for initiation of a 1, 5, 30 or 60-minute system check. Routine discharge cycles insure optimum battery performance. Meets UL standards for self-testing.

#### Battery

Maintenance-Free Lead Calcium or Nickel Cadmium with battery recharge per UL time standards.

#### Operating Temperature

Standard Models: 20°C to 30°C (68°F to 86°F)  
Damp Models: 10°C to 40°C (50°F to 104°F)

### DIMENSIONS

Enclosure Style	A	B	C	D	E	F
1 20 Ga. (.036")	3 7/8" 9.8cm	5 3/4" 14.6cm	11 1/2" 29.2cm	13 1/2" 34.3cm	15 3/4" 40.0cm	25" 63.5cm
2 18 Ga. (.048")	4 3/4" 12.1cm	7 3/4" 19.7cm	13 1/2" 34.3cm	15 3/4" 40.0cm	18" 45.7cm	27 1/4" 69.2cm

