



Lightalarms



id
Improved
diagnostics



TYPE: _____

CATALOG #: _____

NOTES: _____

MA Series



6 and 12 Volts Steel Emergency Unit Sealed

Maintenance-Free Lead Calcium or Nickel-Cadmium Battery



LISTED

The decorative **Lightalarm MA Series** combines a contemporary design with state-of-the-art path of egress illumination. Designed to meet the needs of the interior design professional while providing impressive performance in a compact housing.

Features

Reliability

The **MA Series** has a three-year full warranty (excluding lamps and fuses).

Unit Data

The **Lightalarms MA Series** includes a metal cabinet made of steel with anti-corrosion undercoating and a lower compartment containing two emergency heads with adjustable swivels and long-life MR-16 halogen lamps.

Lamp

The emergency heads are installed at the bottom of the unit, providing an illumination in any downwards direction and will require no tool for adjusting or aiming. The emergency heads are protected by a shock-absorbent, transparent polycarbonate cover. The cover is fixed on the equipment cabinet with two vertical screws. The standard lamp will be 6V or 12V MR16 halogen lamp. Available up to 20W(MH20) high output illumination.

Solid State Charger

- Automatic, temperature compensated type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery.
Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.
- Optional Improved Diagnostics comes with a micro controller based pulse type charger.

Power Requirements

120/277Vac 60Hz, 0.3/0.15 Amp

Power Consumption

Model #	AC Input	Maximum	
		Input Current	Input Power
MA	120 Vac	0.20 A	24 W
	277 Vac	0.08 A	24 W
MA12	120 Vac	0.24 A	30 W
	277 Vac	0.12 A	30 W

Typical Specification

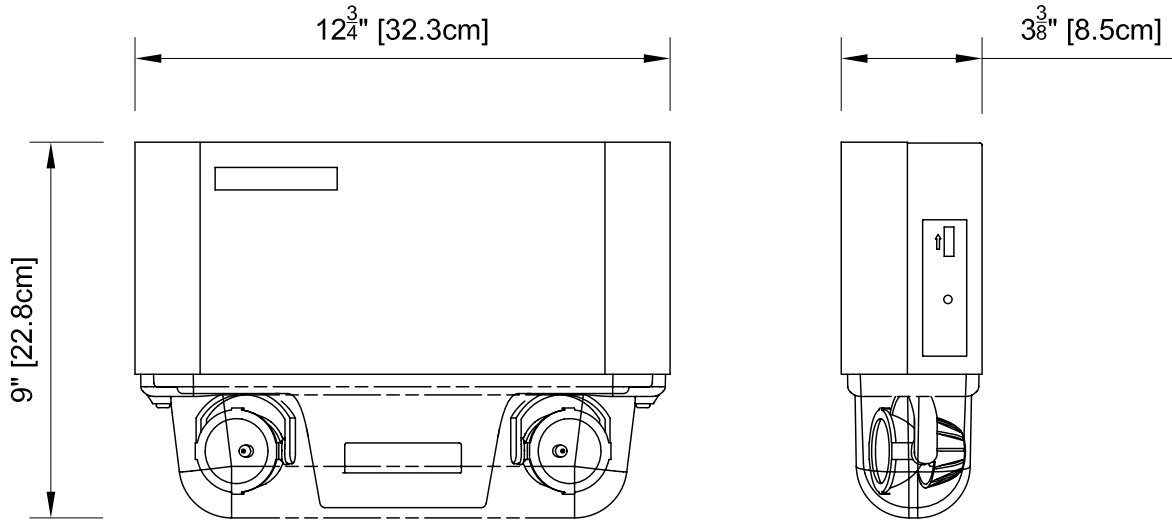
Supply and install the **Lightalarms MA Series** of battery units. The equipment shall include a metal cabinet made of steel with anti-corrosion undercoating and a lower compartment containing two emergency heads with adjustable swivels and long-life MR-16 halogen lamps. The emergency heads shall be installed at the bottom of the unit, providing an illumination in any downwards direction and shall require no tools for adjusting or aiming. The emergency heads shall be protected by a shock-absorbent, transparent polycarbonate cover. The cover shall be fixed on the equipment cabinet with two vertical screws.

The equipment shall have dual-voltage AC input 120/277Vac, 60Hz and an output of: ___ Volts ___ Watts. The equipment shall come complete with two MR16 emergency lamps of ___ Watts. The battery charger shall be factory set with a charging voltage tolerance of $\pm 1\%$ to enable a longer battery life. The unit equipped with optional Improved Diagnostic micro-controller board shall selftest 1 minute every 30 days, 30 minutes every 6 months and 90 minutes every 12 months. The unit shall be supplied with a test switch and diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnect, Charger Failure, Lamp Failure, Service Alarm, main voltage AC "ON", Charger High Rate. The unit shall be UL listed.

The unit shall be **Lightalarms Model - 2MA** _____.

Specifications For Series MA

Dimensions are approximate and subject to change without notice.



Battery Warranty*

Sealed Lead-Calcium: 3-year Full Warranty, plus 3-year pro rata warranty, 8-year life expectancy.

Sealed Nickel-Cadmium: 5-year Full Warranty, 7-year pro rata warranty, 15-year life expectancy.

Unit Warranty*

Unit equipment (except battery and lamps): 3-year limited warranty.

*Subject to proper installation and maintenance

Options

(Add Suffix to Model No.)

Suffix

Unit color in black.....-B
 Improved Diagnostics-ID
 Improved Diagnostics, Non-Audible.....-IDNA

Unit Rating

Furnished standard with two MR16 6V10W

Battery Type	Volts	Model #	Watts to 87.5% of rated battery voltage*				
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.	
Lead-Calcium	6	MAG	18	12	10	-	
		MAG1	20	15	12	-	
		MAG2	27	18	15	9	
		MAG3	30	20	18	10	
		MAG4	36	27	20	12	
		MAG5	40	30	24	15	
Nickel-Cadmium	12	MA12G1	36	27	20	12	
		MA12G2	40	30	24	15	
	6	MAN1	20	18	12	-	
		MA12N1	36	24	15	12	
		12	MA12N2	50	36	24	18

* National Electrical Code Specification

Ordering Information

Example: 2MAG1-M10-M

Number of Heads	Series/D.C. Voltage/Capacity	Lamp type	Color	Options
2= Two Heads	MAG1= 6V-20W, lead calcium MAG3= 6V-30W, lead calcium MAG5= 6V-40W lead calcium* MA12G2= 12V-40W, lead calcium MAN1= 6V-20W, nickel cadmium MA12N1= 12V-36W, nickel cadmium MA12N2= 12V-50W, nickel cadmium * Not available with ID or IDNA Options	-M5= MR16, 6V 5W -M6= MR16, 6V 6W -M10= MR16, 6V 10W -M12= MR16, 12V 12W -M20= MR16, 12V 20W -MH20= 12V 20W High Output	-M= Mist white enamel finish -B= Black enamel finish	-ID= Improved Diagnostics -IDNA= Improved Diagnostics non-audible



Thomas & Betts