



QUANTUM

QUANTUM ELECTRONICS CORPORATION

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Membership Certificate No. 03-08

AE612LED Self-Contained Emergency Power Pack



LED Down Light

Model: AE612LED

The AE612LED Series Emergency Lighting Module is Quantum's specially designed battery back-up exclusively for low power LED down lights from 9W ~ 12W. The module consists of an automatic constant current Nickel Cadmium charger and specially designed Inverter circuits to safely drive all types of external driver (ED) LED lighting source.



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Special Features

- ❑ Compact dimensions – 128mm x 55mm x 15mm (typical size)
- ❑ Suitable for all types of external driver (ED) LED Lighting load from 9W ~ 12W
- ❑ Flexible application for other types of low power LED driver unit.
- ❑ Red LED indicator to monitor the charging status of the Ni-Cd Battery Pack
- ❑ Compliance with the *EN61347-1 and EN61347-2-7* International Standards

Technical Specifications

Input Voltage	: 230VAC 50/60 Hz
Protection Mode	: Over-load Protection & Short Circuit
LED fault indicator	: Flashing yellow LED
LED Lighting load	: LED down lights with external driver
Charging Indicator	: 5Ømm red LED
Switching Speed	: < 0.30 second
Conditional Warranty	: One Year Parts & LIFETIME FREE SERVICE

Model	AE612LED	AE612LED
Load	9W~12W LED	7 ~ 8W
Ni-Cd Specs.	6V 2.8Ah	6V 2.0Ah
Output	DC 9V ~ 60V 350mA	DC 9V ~ 60V 150mA
Ni-Cd Specs.	6V 2.8Ah	6V 2.0Ah
Duration	90 Minutes	2 hours
Charging Time	36~48 hours	24~36 hours

Prices are Subject to Change Without Prior Notice



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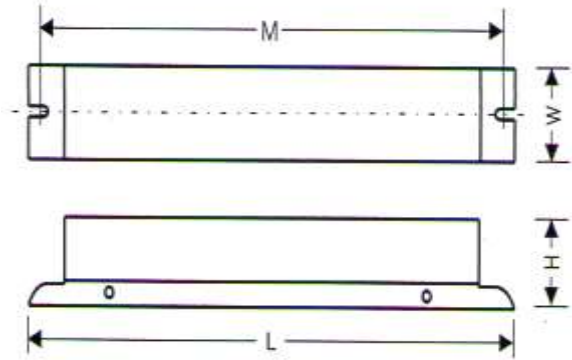
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AE618-LED Series for MR16 type LED/COB Lighting Standard Back-up Lighting for general types of LV MR16 LED/COB lighting



Model: AE618LED Emergency Lighting Module

The AE618LED Enhanced Series Emergency Lighting Module is Quantum's 3rd Generation battery back-up design exclusively for LV MR16 LED/COB lighting. It consists of an automatic constant current Nickel Cadmium charger and DC Supply source to safely drive a wide range of Low Voltage (LV) operated LED/COB light source.

Special Features

- ❑ Remote Test Switch and charge indicator (LED)
- ❑ Suitable for general types of LV MR16 LED/COB light source
- ❑ Applicable for wiring in Maintained or Non-Maintained Mode
- ❑ Built-in Smart IC to control battery charge and discharge function
- ❑ Reliable *UL Listed* Ni-Cd Battery Pack
- ❑ Equipped with safety fuse against short-circuit condition
- ❑ Compact Dimensions – L (200mm) x W (40mm) x H (38mm) casing

Common Specifications

Input Voltage	: 230VAC 50/60Hz
Operating Mode	: Maintained Mode
Line Current	: 20mA ± 10%
Charging Current	: 250mA nominal
Load Range	: 15V ~ 60V
Constant Output current	: 200mA to 500mA adjustable
Ni-Cd Specification	: 12V 2.0AH/2.8 AH Ni-Cd
Lighting duration	: > 2 hours rated
Switching Speed	: < 0.30 second
Battery Protection	: Low Battery Cut-Off
Standard Compliance	: EN 61347-1:2008 and EN61347-2-7:2006
Conditional Warranty	: One (1) Year Parts & LIFETIME FREE SERVICE

Products are Subject to Change and Improvements Without Prior Notice



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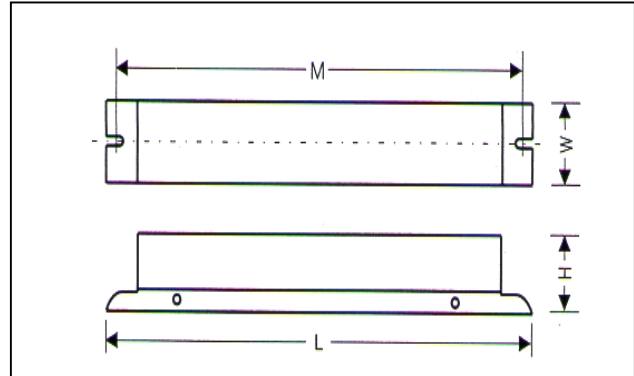
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Membership Certificate No. 03-08

QUANTUM



ELM-4e II Emergency Battery Back-up

STANDARD FEATURES

HOUSING

- Electro-galvanized steel with epoxy powder paint coating
- Screw-less terminal block
- Snap-in metal enclosure

REFERENCE STANDARD

- IEC 924
- IEC 925
- IEC 598-2-22
- EN61347-2
- GB17945-2000

PRODUCT CLASSIFICATION

- Commercial Grade

COMPACT DIMENSION

- 220mm (L) x 40mm (W) x 40mm (H)

PRODUCT WARRANTY

- One Year for Parts
- Lifetime Free Service

ELECTRICAL FEATURES

ELECTRICAL

- 220~240 VAC 50/60Hz
- Maintained /Non-Maintained Mode
- Convenient Test Switch
- IC chip Battery Charge Controller
- Equipped with safety fuse against short-circuit or end-of-life condition
- Red LED charging monitor

LINEAR LOAD

- T8 18W, 28W, 32W, 36W, 40W FL

BATTERY SPECIFICATION

- UL Listed Ni-Cd 6V 2.5Ah

EMERGENCY DURATION

- 2.5 hours \pm 10% lighting duration

CHARGER

- 24 hours recharge period after discharge
- Low voltage battery disconnection to protect the battery from deep discharge damage to the battery

Specification and Design Improvements are Subject to Change Without Prior Notice



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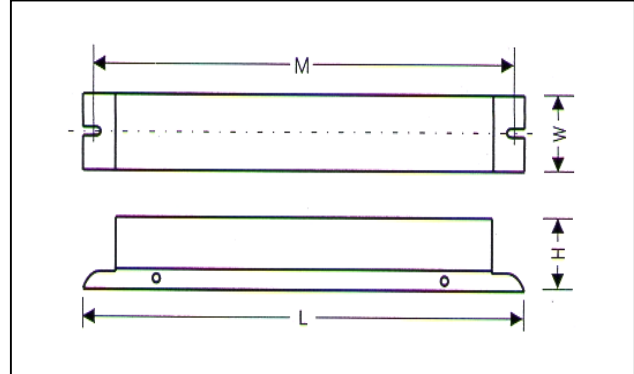
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Membership Certificate No. 03-08

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ELM-6e II Emergency Battery Back-up

STANDARD FEATURES

HOUSING

- Electro-galvanized steel with epoxy powder paint coating
- Screw-less terminal block
- Snap-in metal enclosure

REFERENCE STANDARD

- EN61347-2
- EN60925
- NEC - NFPA 70

PRODUCT CLASSIFICATION

- Commercial Grade

COMPACT DIMENSION

- 275mm (L) x 40mm (W) x 30mm (H)

PRODUCT WARRANTY

- One Year for Parts
- Lifetime Free Service

ELECTRICAL FEATURES

ELECTRICAL

- 220~240 VAC 50/60Hz
- Maintained /Non-Maintained Mode
- Convenient Test Switch ON/OFF
- IC chip Battery Charge Controller
- Equipped with safety fuse against short-circuit or end-of-life condition
- LED charge monitor

LINEAR LOAD

- T5 14W, 21W, 28W FL

BATTERY SPECIFICATION

- UL Listed Ni-Cd 6V 2.5Ah

EMERGENCY DURATION

- 2 hours \pm 10% lighting duration

CHARGER

- 24 hours recharge period after discharge
- Low voltage battery disconnection to protect the battery from deep discharge damage to the battery

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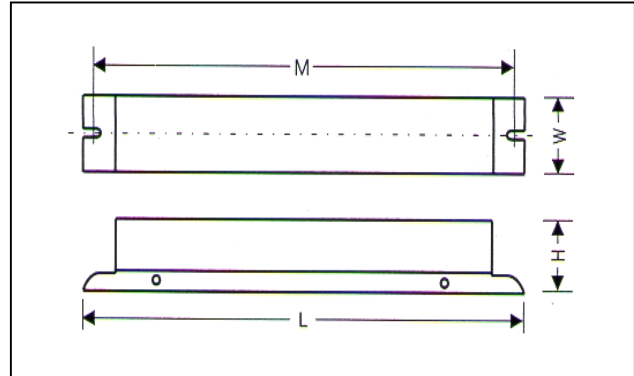
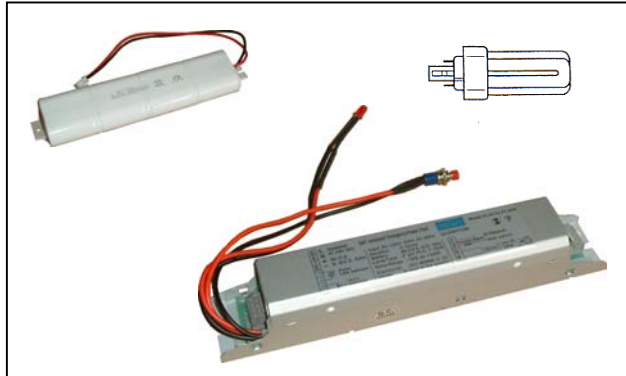
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Membership Certificate No. 03-08

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ELM-7e Series Emergency Battery Back-up

STANDARD FEATURES

HOUSING

- Electro-galvanized steel with epoxy powder paint coating
- Screw-less terminal block
- Snap-in metal enclosure

REFERENCE STANDARD

- EN61347-2
- EN60925
- NEC - NFPA 70

PRODUCT CLASSIFICATION

- Commercial Grade
- Medium Power Class

COMPACT DIMENSION

- 275mm (L) x 40mm (W) x 30mm (H)

PRODUCT WARRANTY

- One Year for Parts
- Lifetime Free Service

ELECTRICAL FEATURES

ELECTRICAL

- 220~240 VAC 50/60Hz
- Maintained /Non-Maintained Mode
- Convenient Test Switch ON/OFF
- IC chip Battery Charge Controller
- Equipped with safety fuse against short-circuit or end-of-life condition
- LED charge monitor

LINEAR LOAD

- 2-pin CFL 7 ~ 26 Watts

BATTERY SPECIFICATION

- UL Listed Ni-Cd 9.6V 2.5Ah

EMERGENCY DURATION

- 2 hours \pm 10% lighting duration

CHARGER

- 24 hours recharge period after discharge
- Low voltage battery disconnection to protect the battery from deep discharge damage to the battery

Specification and Design Improvements are Subject to Change Without Prior Notice



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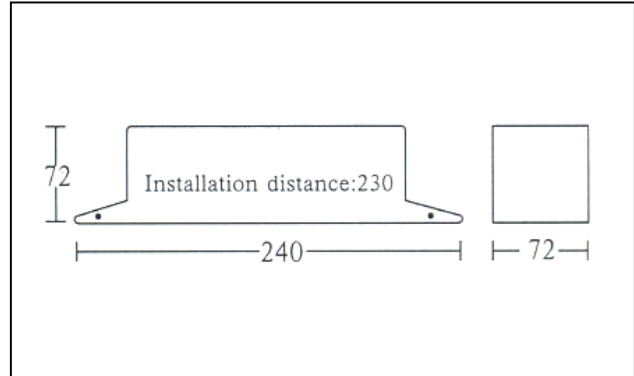
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Membership Certificate No. 03-08

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ELM-7e SC Series Emergency Battery Back-up

STANDARD FEATURES

HOUSING

- Electro-galvanized steel with epoxy powder paint coating
- External terminal block
- Internal Ni-Cd battery installation

REFERENCE STANDARD

- EN61347-2
- EN60925
- EN60589-2-22

PRODUCT CLASSIFICATION

- Commercial Grade
- Low Power Class

PRODUCT DIMENSION

- 240mm (L) x 72mm (W) x 72mm (H)

PRODUCT WARRANTY

- One Year for Parts
- Lifetime Free Service

ELECTRICAL FEATURES

ELECTRICAL

- 220~240 VAC 50/60Hz
- Maintained /Non-Maintained Mode
- Convenient Test Switch ON/OFF
- Integrated circuit IC technology
- Equipped with safety fuse against short-circuit or end-of-life condition
- LED power, fault, & charge monitor

APPLICABLE LOAD

- 2-pin PL lamp 7W ~ 18W

BATTERY SPECIFICATION

- UL Listed Ni-Cd 6V 2.5Ah

EMERGENCY DURATION

- 2 hours \pm 10% lighting duration

CHARGER

- 24 hours recharge period after discharge
- Low voltage battery disconnection to protect the battery from deep discharge damage to the battery

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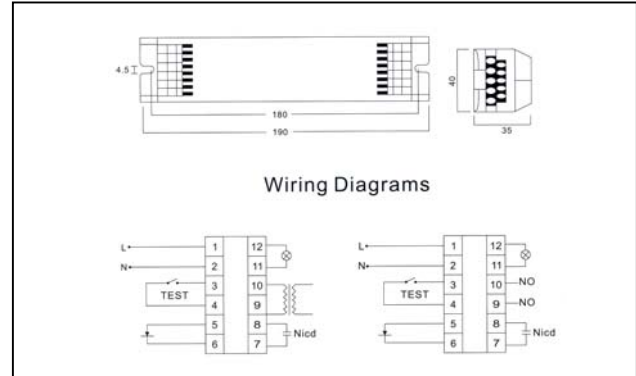
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ELM-8e SC Series Emergency Battery Back-up

STANDARD FEATURES

HOUSING

- Plastic PC case
- External terminal block
- Suitable for Indoor application
- For external Ni-Cd battery installation
- Compact and low profile casing

REFERENCE STANDARD

- IEC61347-2
- IEC60925
- VDE 0108

PRODUCT CLASSIFICATION

- Commercial Grade
- Medium Power Class

OPTIONAL CASING

- Integrated electro-galvanized steel with powder coat paint casing

PRODUCT WARRANTY

- One Year for Parts
- Lifetime Free Service

ELECTRICAL FEATURES

ELECTRICAL

- 220~240 VAC 50/60Hz
- Maintained /Non-Maintained Mode
- SMD design for minimal discrete parts
- Equipped with safety fuse against short-circuit or end-of-life condition
- Maximum case temperature $t_c < 70^\circ\text{C}$
- Red LED charging monitor

APPLICABLE LOAD

- 2-pin Tungsten Halogen 12V 10W ~ 50W

BATTERY SPECIFICATION

- UL Listed Ni-Cd 12V 2.5Ah

EMERGENCY DURATION

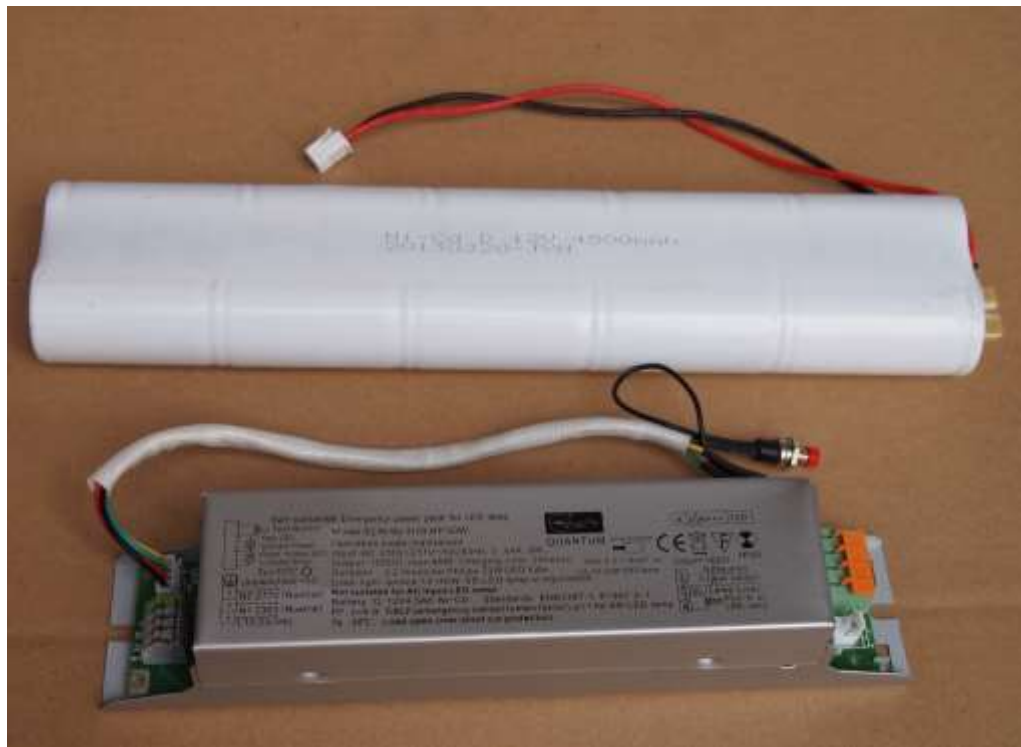
- 2 hours \pm 10% lighting duration (20W)

CHARGER

- 24 hours recharge period after discharge
- Low voltage battery disconnection to protect the battery from deep discharge damage to the battery

Specification and Design Improvements are Subject to Change Without Prior Notice

ELM-9e III Series for HP LED Lighting



LED Down Light



LED Bulb

Model: ELM-9e III Emergency Lighting Module

The ELM-9e III Series Emergency Lighting Module is Quantum's specially designed battery back-up exclusively for LED lighting from 9W ~ 15W. The module consists an automatic constant current Nickel Cadmium charger and specially designed Inverter circuits to safely drive all types of external driver (ED) LED lighting source.



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Special Features

- ❑ Compact dimensions – 160mm x 300mm x 560mm (HxWxL)
- ❑ Suitable for all types of external driver (ED) LED Lighting from 9W ~ 15W
- ❑ Flexible application for other types of LED lighting load and ESL \leq 20 Watts
- ❑ Red LED indicator to monitor the charging status of the Ni-Cd Battery Pack
- ❑ Compliance with the *EN61347-2* or *EN60925* International Standards

Technical Specifications

Input Voltage	: 230VAC 50/60 Hz
Protection Mode	: Over-load Protection & Short Circuit
Charging Period	: 24 ~ 36 hours full charge
LED fault indicator	: Flashing yellow LED
LED Lighting load	: 12 ~15 Watts LED down light
Ni-Cd Specification	: 12V 1.8Ah for 12W 12V 2.0Ah for 15W
Lighting duration	: 2 hours \pm 10% (12V 1.8Ah) 3 hours \pm 10% (12V 2.0Ah)
Charging Indicator	: 5 \emptyset mm red LED
Switching Speed	: < 0.30 second
Conditional Warranty	: One Year Parts & LIFETIME FREE SERVICE

Prices are Subject to Change Without Prior Notice



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ELM-9e I, II, III Series & AE618 for HP LED Lighting



LED Down Light



LED Bulb

Model: ELM-9e I, II, III Emergency Lighting Module

The ELM-9e Series Emergency Lighting Module is Quantum's specially designed battery back-up exclusively for LED lighting from 9W ~ 25W. The module consists of an automatic constant current Nickel Cadmium charger and specially designed Inverter circuits to safely drive all types of external driver (ED) LED lighting source.



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Special Features

- ❑ Compact dimensions – 160mm x 300mm x 560mm (typical size)
- ❑ Suitable for all types of external driver (ED) LED Lighting from 9W ~ 25W
- ❑ Flexible application for other types of LED lighting load and ESL ≤ 26 Watts
- ❑ Red LED indicator to monitor the charging status of the Ni-Cd Battery Pack
- ❑ Compliance with the *EN61347-2* or *EN60925* International Standards

Technical Specifications

Input Voltage	: 230VAC 50/60 Hz
Protection Mode	: Over-load Protection & Short Circuit
LED fault indicator	: Flashing yellow LED
LED Lighting load	: LED down lights with external driver
Charging Indicator	: 5Ømm red LED
Switching Speed	: < 0.30 second
Conditional Warranty	: One Year Parts & LIFETIME FREE SERVICE

Model	ELM-9e I	ELM-9e II	ELM-9e III	AE618
Load	15W Down light	25W Down load	20W Light Beam	30W Down light
Ni-Cd Specs.	12V 2.8Ah	12V 4.5Ah	12V 4.5Ah	12V 2.0Ah
Duration	2 hours	90 Minutes	2 hours	2 hours
Charging Time	24~36 hours	36~48 hours	36~48 hours	24~36 hours

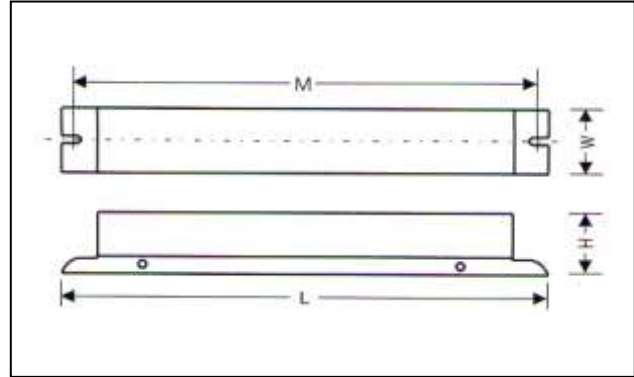
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ELM-10e Emergency Battery Back-up

STANDARD FEATURES

HOUSING

- ❑ Electro-galvanized steel with epoxy powder paint coating
- ❑ UL Listed TF solid wires
- ❑ Built-in Ni-Cd Battery Pack

REFERENCE STANDARD

- ❑ EN61347-2
- ❑ EN60925
- ❑ NEC - NFPA 70

PRODUCT CLASSIFICATION

- ❑ Commercial Grade

COMPACT DIMENSION

- ❑ 380mm (L) x 100mm (W) x 75mm (H)

PRODUCT WARRANTY

- ❑ One Year for Parts
- ❑ Lifetime Free Service

ELECTRICAL FEATURES

ELECTRICAL

- ❑ 110V, 240V, 277VAC input voltage
- ❑ Maintained /Non-Maintained Mode
- ❑ Convenient Test Switch ON/OFF
- ❑ High reliability SMD components
- ❑ Equipped with safety fuse against short-circuit or end-of-life condition
- ❑ Red LED charging monitor

LINEAR LOAD (Double Lamps)

- ❑ T8 – 18W, 28W, 32W, 36W, 40W x 2

BATTERY SPECIFICATION

- ❑ UL Listed Ni-Cd 6.0V 2.5Ah

EMERGENCY DURATION

- ❑ 2 hours \pm 10% lighting duration

CHARGER

- ❑ 24 hours recharge period after discharge
- ❑ Low voltage battery disconnection to protect the battery from deep discharge damage to the battery

Specification and Design Improvements are Subject to Change Without Prior Notice



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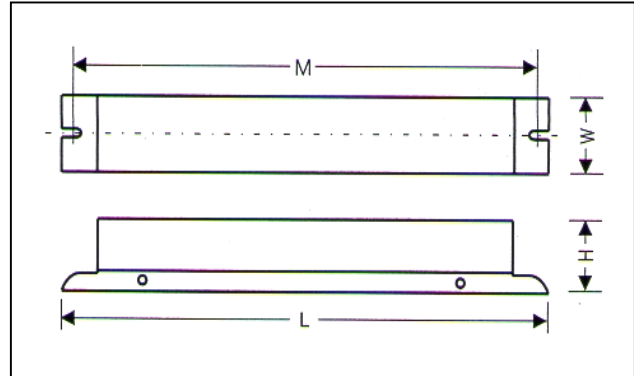
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Membership Certificate No. 03-08

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ELM-12e HO Emergency Battery Back-up

STANDARD FEATURES

HOUSING

- Electro-galvanized steel with epoxy powder paint coating
- Screw-less terminal block
- Snap-in metal enclosure
- Slim and low profile casing

REFERENCE STANDARD

- EN61347-2
- EN60925
- GB17945-2000

PRODUCT CLASSIFICATION

- Commercial Grade
- HIGH LUMENS OUTPUT**

COMPACT DIMENSION

- 330mm (L) x 40mm (W) x 35mm (H)

PRODUCT WARRANTY

- One Year for Parts
- Lifetime Free Service

ELECTRICAL FEATURES

ELECTRICAL

- 220~240 VAC 50/60Hz
- Maintained /Non-Maintained Mode
- Convenient Test Switch
- IC chip Battery Charge Controller
- Equipped with safety fuse against short-circuit or end-of-life condition
- Red LED charging monitor

LINEAR LOAD

- T8 18W, 28W, 32W, 36W, 40W FL

BATTERY SPECIFICATION

- UL Listed Ni-Cd 12V 2.5Ah

EMERGENCY DURATION

- 2 hours \pm 10% lighting duration

CHARGER

- 24 hours recharge period after discharge
- Low voltage battery disconnection to protect the battery from deep discharge damage to the battery

Specification and Design Improvements are Subject to Change Without Prior Notice



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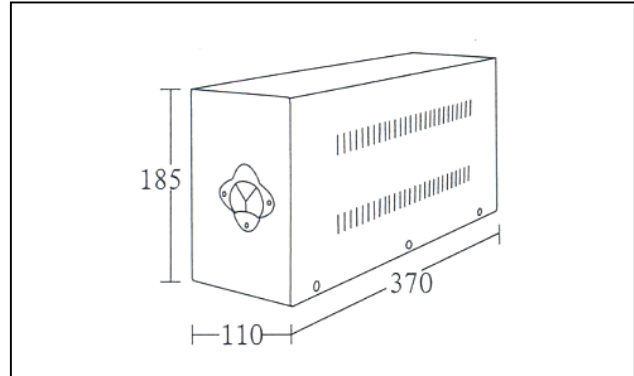
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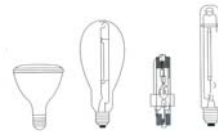


Membership Certificate No. 03-08

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ELM-12e HP-150W Emergency Battery Back-up



STANDARD FEATURES

HOUSING

- ❑ Electro-galvanized steel with epoxy powder paint coating
- ❑ Soft touch control panel

REFERENCE STANDARD

- ❑ EN61347-2
- ❑ EN60925
- ❑ NEC - NFPA 70
- ❑ EMI/EMC compliant

PRODUCT CLASSIFICATION

- ❑ Commercial & Industrial Grade
- ❑ High Power Class

PRODUCT DIMENSION

- ❑ 370mm (L) x 110mm (W) x 185mm (H)

PRODUCT WARRANTY

- ❑ One Year for Parts
- ❑ Lifetime Free Service

ELECTRICAL FEATURES

ELECTRICAL

- ❑ 220~240 VAC 50/60Hz
- ❑ Non-Maintained Mode
- ❑ Convenient Test Switch ON/OFF
- ❑ Power MOSFET Inverter Technology
- ❑ Equipped with safety fuse against short-circuit or end-of-life condition
- ❑ LED power, fault, & charge monitor

APPLICABLE LOAD

- ❑ HPS, Metal Halide 70W, 80W Spiral CFL

BATTERY SPECIFICATION

- ❑ UL Listed Ni-Cd 24V 4.5Ah~7.0Ah

EMERGENCY DURATION

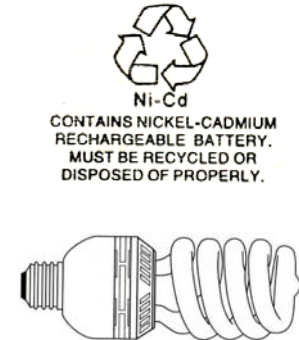
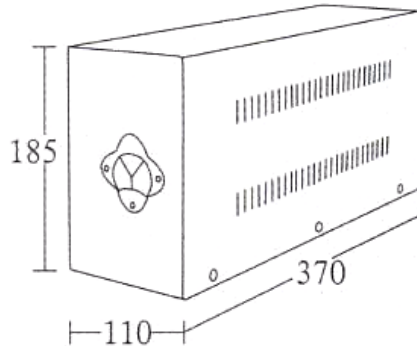
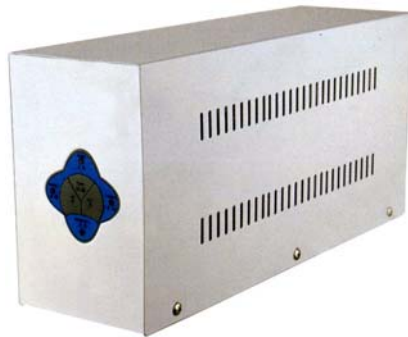
- ❑ 30 min.~ 2 hours \pm 10% lighting duration

CHARGER

- ❑ 24 hours recharge period after discharge
- ❑ Low voltage battery disconnection to protect the battery from deep discharge damage to the battery

Specification and Design Improvements are Subject to Change Without Prior Notice

ELM-HP100 Emergency Lighting Module for CFL Lamp
Emergency Lighting Module for High Power Spiral CFL 65W



Emergency Module for High Power E27 Spiral CFL 65W Lamp

The **ELM-HP100** is Quantum's Emergency Lighting Module for Energy Saving High Power CFL load. It was specifically designed for E27 socket type Spiral CFL 65W load. The High Efficiency Inverter circuit uses the Power MOSFET technology to enable it to drive the high power CFL load flawlessly.

Special Features

- ❑ Simple wiring diagram for lower installation costs
- ❑ Designed for E27 socket type Spiral CFL 65W Energy Saving Lamps
- ❑ IC Controlled Ni-Cd Battery Charger with low battery cut-off and over-charge protection
- ❑ Red LED indicator to monitor the charging status of the Ni-Cd Battery Pack
- ❑ Convenient test switch and remote battery switch
- ❑ Complies with EMI/EMC standards

Common Specifications

Input Voltage	: 230VAC 60Hz
Operating Mode	: Maintained or Non-Maintained
Protection Mode	: Open Load Condition
Battery Specification	: Ni-Cd 24V 4.5AH (UL Listed)
Lighting duration	: 30 ~ 60 Minutes ± 10%
Switching Speed	: < 0.30 second
Applicable Load	: E27 Spiral CFL 65W
Conditional Warranty	: One Year Parts & Three Years FREE SERVICE

Specifications and Improvements are Subject to Change Without Prior Notice