Type No. _____

Job Name _____

Catalog No. _____

LightGuard®

A DIVISION OF GENERAL THOMAS GROUP, LLC

T6/T12 Series

Shown: T6150

Listed to 924

Shown: T12300VA

- **High Capacity Industrial Emergency Units**
- **6 Volt, 75 - 225 Watts**
  12 Volt, 150 - 450 Watts
- **Free Electrolyte, Wet Cell, Lead Calcium Battery**

Battery

- Low maintenance, free electrolyte battery
- Microporous rubber plate separators
- Specific gravity disk indicators show relative state charge at a glance
- Optimum operating range for sealed lead calcium batteries is 65°F (19°C) to 85°F (30°C)*

* Increases or decreases in temperature will affect battery performance and/or capacity. Optimum battery performance realized at 77°F (25°C).

Housing

- 18 gauge steel cabinet with a tan epoxy powder coat finish
- Knockouts allow one to three mounted lamp heads
- Bi-color LED charge monitor/indicator
- Choice of wedge base, sealed beam tungsten, or halogen lamp heads
- "Press-to-test" switch

Electronics

- 120/277 VAC selectable input
- Brownout protection activates lights when AC voltage drops 20% below nominal
- Labor saving AC lockout feature
- Low voltage disconnect prevents deep battery discharge
- Load relay with fused distribution load circuits
- Two fused output circuits
- Utilizes a fully automatic voltage regulated two-rate current limited solid-state charger -- initially provides a high rate charge upon restoration of AC power, and provides trickle charge to maintain batteries at full capacity once float voltage is attained
- Solid-state charging circuitry will charge a fully discharged battery within UL 924 requirements

Power Consumption

120 VAC - 0.66 amps, 80 watts

277 VAC - 0.30 amps, 80 watts

Self-Diagnostics (optional)

- OnmiTest Self-Diagnostics option includes automatic and manual tests to ensure unit is operating properly, and assists user in meeting code requirements.
- Verifies battery voltage and lamp continuity every 10 seconds.
- Illuminates lamps and discharges battery for 3 minutes every 30 days. A manual test is available from 1 to 90 minutes.

Application

- Industrial locations where a high capacity emergency lighting unit with multiple remote fixture capability is desired

Code Compliance

- UL 924 listed
- NFPA 101
- NEC, BOCA and OSHA illumination standard

Operation

Model	Sugg. Head	AC Input Voltage	AC Input Wattage+	DC Voltage	Watts to 87½% of Rated Voltage++ 1½ hrs.	2 hrs.	4 hrs.	8 hrs.
T675	H126T	120/277	80 max.	6	75	56	28.5	15
T6100	H126T	120/277	80 max.	6	100	75	38	20
T6150	H126T	120/277	80 max.	6	150	112.5	57	30
T6225	H126T	120/277	80 max.	6	225	169	85.5	45
T12150	H1212T	120/277	80 max.	12	150	112.5	57	30
T12200	H1212T	120/277	80 max.	12	200	150	96	34
T12300	H1212T	120/277	80 max.	12	300	225	114	60
T12450	H1212T	120/277	80 max.	12	450	337.5	171	90

+ Based on high rate charge after power loss ++ Per NEC Specifications

Warranty

Electronics: 3 years

Battery: 1 year full, 4 years pro-rata

Ordering Information

MODEL	# OF HEADS	LAMP HEAD TYPE	OPTIONS [1]
T675 = 6 Volt, 75 Watt **T6100** = 6 Volt, 100 Watt **T6150** = 6 Volt, 150 Watt **T6225** = 6 Volt, 225 Watt **T12150** = 12 Volt, 150 Watt **T12200** = 12 Volt, 200 Watt **T12300** = 12 Volt, 300 Watt **T12450** = 12 Volt, 450 Watt	**3** = Three **2** = Two **1** = One **blank** = No lamp heads	See lamp head selection chart below -- for additional heads,	**A** = Ammeter [2] **ACF1** = 120 VAC Fuse **ACF2** = 277 VAC Fuse **ACP1** = 120 VAC Power Switch **ACP2** = 277 VAC Power Switch **DCP** = DC Power Switch **EX** = Special Input Transformer (Specify voltage & frequency) **LC** = Line Cord (6', 120 VAC field installed) **OT** = OmniTest Self-Diagnostics **OTAL** = OmniTest w/ Alarm **OTTD** = OmniTest w/ Time Delay [3] **TD1** = 120 VAC Time Delay [2, 3] **TD2** = 277 VAC Time Delay [2, 3] **V** = Voltmeter [2]

ACCESSORIES (Ordered Separately)

WG = Wire Guard
MXSHELF = Mounting Shelf
LMSHELF = Mounting Shelf for T12300, T12400
URT612 = Universal Remote Test (URT)

NOTES:

1) Some option combinations may impact UL listing. Consult factory for specifics.
2) Not available with OT, OTAL, or OTTD options.
3) 15 minute delay.

Ordering Example

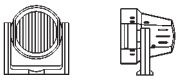
T6150 2 H126T TD1

Model
# of Heads
Lamp Head
Options

Lamp Head Selection

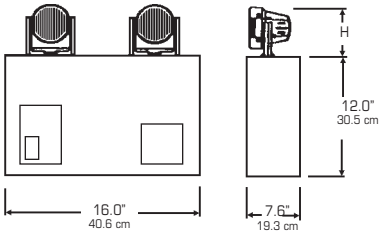
Lightguard's H-Head is the suggested head for the T6/T12 Series. The H-Head is constructed of high impact polycarbonate, and is offered in tan to match the T6/T12 housing. The H-Head features dual-axis swivel mount and is available with 6 or 12 volt halogen lamps.

Lightguard offers other lamp heads that can be used with the T6/T12 Series. For lamp head details, please refer to the Accessories section of the Lightguard specification binder.

HEAD TYPE	DC VOLTAGE	DC WATTAGE	ORDER CODE
H-Head, Thermoplastic 	6 VOLT HALOGEN	7 watt 12 watt	**Tan** **H76T** **H126T**
	12 VOLT HALOGEN	12 watt	**H1212T**

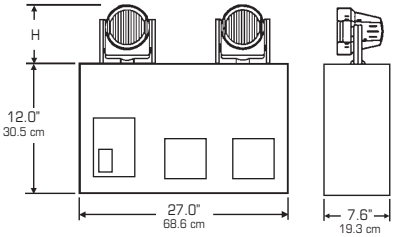
Dimensions

T675, T6100, T6150, T6225
T12150, T12200



Lamp Head	Height (H)
H	3.5" (8.9 cm)
X	6.3" (15.9 cm)
J	5.0" (12.7 cm)
D	6.0" (15.2 cm)

T12300, T12450



Model	Weight
T675	44 lbs. (20.0 kg)
T6100	46 lbs. (20.9 kg)
T6150	58 lbs. (26.3 kg)
T6225	58 lbs. (26.3 kg)
T12150	44 lbs. (20.0 kg)
T12200	44 lbs. (20.0 kg)
T12300	97 lbs. (44.0 kg)
T12450	97 lbs. (44.0 kg)

Suggested Specification

Furnish and install Lightguard emergency lighting model _____. The unit shall be listed to Underwriters Laboratories, Inc. Standard #924 and shall meet the standards of the National Electrical Code (NEC).

INSTALLATION /OPERATION - Unit shall be easily field connected to a 120 or 277 volt, 60 hertz, unswitched power source. Installation must comply with the NEC Code 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 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 - The T6/T12 Series shall utilize a fully automatic voltage regulated two-rate current limited solid-state charger. The charger shall initially provide a high rate charge upon restoration of AC power, and provides trickle charge to maintain batteries at full capacity once float voltage is attained.

BATTERY - The battery shall be low maintenance, free electrolyte lead calcium battery. The battery shall include microporous rubber plate separators and specific gravity disk indicators to show relative state charge at a glance.

HOUSING - The cabinet shall be constructed of 18 gauge steel finished with a tan epoxy powder coat finish. The cabinet shall have provisions for mounting up to three lamp heads.

CONTROLS - The unit shall include a "Press-to-Test" switch and bi-color LED charge monitor/indicator.

SELF-DIAGNOSTICS (optional) - The unit shall include OmniTest self-diagnostics. OmniTest shall conduct the following automatic tests: battery voltage and lamp continuity every 10 seconds, a 3 minute battery discharge and lamp illumination test every 30 days, and a 30 minute battery discharge and lamp illumination test every 6 months. OmniTest shall also conduct the following manual tests: three minute, 30 minute and 90 minute battery discharge and lamp illumination tests and optional audible alarm test.