

RGS-TB Battery Unit

6, 12 and 24 volts T-Bar Units



Fully recessed units for T-Bar mounting in suspended ceilings.

The **RGS-TB** Series battery units are designed for T-bar ceiling grid installation.

This slim-line, unobtrusive unit is ideally suited for any commercial location where there is limited wall space and where the greater directional flexibility of ceiling-mounted heads is needed to provide greater light distribution.

NEXUS



Made in Canada



Features

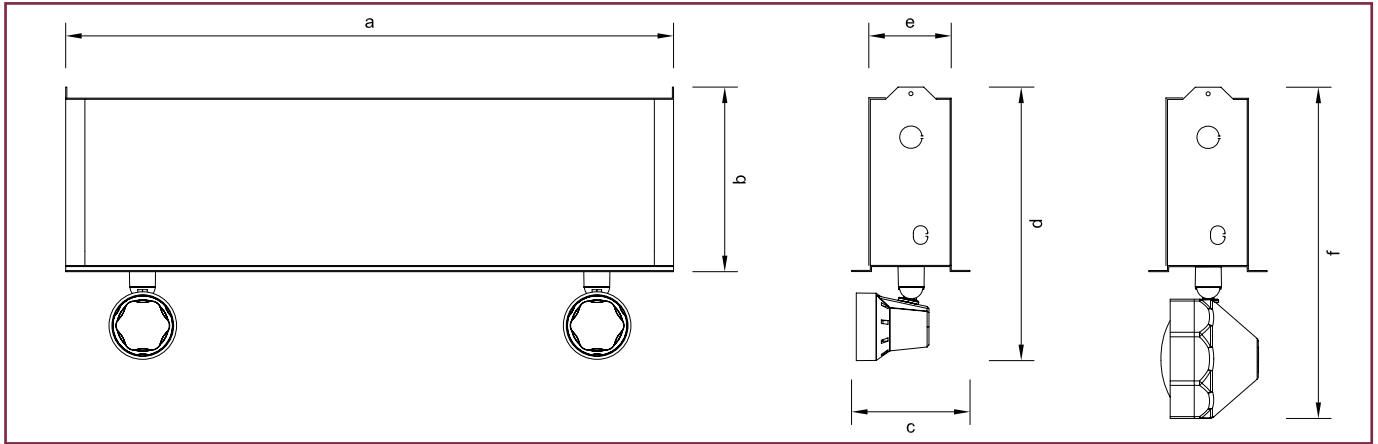
- Rugged steel cabinet with corrosion-resistant undercoating.
- Battery and charger are concealed above the ceiling level in the unit cabinet
- Removable panel provides easy access to battery and circuitry
- Test switch and LED indicators are mounted on the visible bottom panel
- Units mount quickly and easily in standard 2' x 2' or 2' x 4' grids without any additional hardware
- Solid-state pulse-type charger – current-limited, temperature-compensated, short-circuit proof and reverse-polarity protected
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator lights
- Long-life, maintenance-free lead acid battery
- Emergency lighting heads requiring no tools to adjust or aim.
- Standard 120/347Vac input voltage
- **NEXUS**[®] compatible (for more information on **NEXUS**[®], please consult factory.)
- CSA C22.2 No. 141 certified

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



RGS*TB SERIES

Dimensions



Cabinet	Dimensions					
	a	b	c	d	e	f
Large Cabinet	23 3/4 " (60.3 cm)	7 1/4 " (18.3 cm)	7 1/8 " (18.0 cm)	10 5/8 " (27.1 cm)	5 5/8 " (14.4 cm)	13 " (32.9 cm)
Small Cabinet	23 3/4 " (60.3 cm)	7 1/4 " (18.3 cm)	4 5/8 " (11.8 cm)	10 5/8 " (27.1 cm)	3 1/4 " (8.2 cm)	13 " (32.9 cm)

Replacement Lamps

Ordering Code	Type	Voltage
570.0016-L	Mini tungsten (MT9W)	6V - 9W
570.0025-L	Mini tungsten (MT9W)	12V - 9W
570.0045-L	Mini tungsten (MT9W)	24V - 9W

For the complete list, please see the lamp chart on page 196 to 199.

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Typical Specification

Supply and install a complete emergency lighting system as described herein and shown on the drawings.

The Lumacell Smart Diagnostic Micro controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120V or 347V, 60 Hz and be CSA listed. The unit shall have an output of _____ volts.

The charger shall be fully computer tested and its charge voltage factory set to $\pm 1\%$ tolerance. Chargers with field-adjusted potentiometers are not acceptable. A pulse-type charger shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, when the battery is at full capacity, the charger will shut-off. Periodically the charger shall provide a pulse of energy to keep the battery topped off. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC

circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the battery from the fused output circuit at the end of discharge. The unit shall self-test for 1 minute every 30 days, 10 minutes on the 6th month and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with CSA specifications. The unit shall be furnished with sealed dust tight relay, a test switch and seven diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnected, Charger Failure, Lamp Failure, Service Alarm, AC "ON", Charger High Rate. The unit shall be T-bar mounted and come complete with tool-less emergency lighting heads requiring no tools to adjust or aim.

The unit shall be Lumacell model:

_____.



**Single,
regular head**



**Single,
metal head**

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



RGS*TB SERIES

Power Consumption and Unit Rating

Model	AC Specs	Wattage Capacity					
		30min	1h00	1h30	2h00	4h00	
RG36TB	120/347 Vac.	0.10/0.04 Amp	36	21	15	12	6
RG72TB		0.22/0.08 Amp	72	42	30	24	12
RG108TB		0.22/0.08 Amp	108	63	45	36	18
RG180TB		0.22/0.08 Amp	180	105	75	60	30
RG12S36TB		0.09/0.03 Amp	36	21	15	12	6
RG12S72TB		0.15/0.06 Amp	72	42	30	24	12
RG12S100TB		0.34/0.12 Amp	100	58	42	33	17
RG12S144TB		0.40/0.14 Amp	144	84	60	48	24
RG12S200TB		0.41/0.14 Amp	200	117	83	67	33
RG24S144TB		0.55/0.20 Amp	144	84	60	48	24
RG24S288TB		0.67/0.23 Amp	288	168	120	96	48

Ordering Information

Series	Capacity Cabinet Size	Housing	# of heads	Head Style Lamp Wattage	Colour	AC Voltage	Options
RG36= 6 volts	36= 36 watts (P)* 72= 72 watts (P)* 108= 108 watts (P)* 180= 180 watts (G)*	TB= T-Bar	Blank= no head 1= one head 2= two heads 3= three heads	MT9W= mini-tungsten, 6V, 12V, 24V, 9W, wedge base MT18W= mini-tungsten, 12V, 24V, 18W, wedge base MQ8W= mini-halogen, 6V, 12V, 8W, quartz bi-pin MQ12W= mini-halogen, 6V, 12V, 24V, 12W, quartz bi-pin LH9W= tungsten, 6V, 12V, 24V, 9W, wedge base LH18W= tungsten, 12V, 24V, 18W, wedge base LH25W= tungsten, 6V, 12V, 24V, 25W, DCB LHQ8W= halogen, 6V, 12V, 8W, quartz bi-pin LHQ12W= halogen, 6V, 12V, 12W, quartz bi-pin LHQ20W= halogen, 6V, 12V, 24V, 20W, quartz bi-pin LHQ55W= halogen, 12V, 55W*, quartz bi-pin LHQ70W= halogen, 24V, 70W**, quartz bi-pin MQM6W= mini-halogen, 6V, 6W, MR16 MQM10W= mini-halogen, 6V, 10W, MR16 MQM12W= mini-halogen, 12V, 12W, MR16 MQM20W= mini-halogen, 12V, 20W, MR16 SB9W= tungsten, 6V, 9W, sealed beam SB18W= tungsten, 6V, 12V, 18W, sealed beam SB25W= tungsten, 6V, 12V, 25W, sealed beam QSB8W= halogen, 6V, 12V, 8W, quartz sealed beam QSB12W= halogen, 6V, 12V, 12W, quartz sealed beam QSB20W= halogen, 6V, 20W, quartz sealed beam DR13012W= mini-deco, halogène, 12V, 24V, 12W, MR16 DR13020W= mini deco, halogène, 12V, 24V, 20W, MR16*** DR13035W= mini deco, halogen, 12V, 24V, 35W, MR16*** DR13050W= mini deco, halogen, 12V, 24V, 50W, MR16***	Blank= factory white BK= black *PW= polar white	Blank= 120/347 Vac input ZB= 240 Vac input ZC= 277 Vac input ZE= 220 Vac, 50 Hz input	Blank= no option A= ammeter AT= Auto-Test ATN= Auto-Test non-audible CT= cabtire DPF6= 6cct. fuse panel LC= line cord (120V only) LD= lamp disconnect *NEX= NEXUS® system interface (for 6V & 12V units only) RRT= remote test receiver TD= time delay TL= Twistlock plug TMBB= a.c./d.c. terminal block TMBD= d.c. terminal block TMBK= a.c. terminal block V= voltmeter **HHC= remote test transmitter
RG12S= 12 volts	36= 36 watts (P)* 72= 72 watts (P)* 100= 100 watts (P)* 144= 144 watts (P)* 200= 200 watts (G)* 220= 220 watts (G)*						
RG24S= 24 volts	144= 144 watts (G)* 288= 288 watts (G)*						

*Cabinet size is not part of the ordering information.

* Aluminum heads only.
** High temperature heads only.
*** Supplied with polar white or black cabinet only.

*With DR head only.

*Not all options available with NEXUS®. Contact your sales representative.
**One per order.

EXAMPLE: RGS36TB2MT9W

Glossary

A	ammeter	Used to measure the current being supplied to the battery while in charge mode.
AT	Auto-Test	Automatically tests and continuously monitors your emergency lighting unit. If a problem occurs, the unit will send a visual (flashing or blinking LED indicator) and audible warning. Complies with Fire Code requirements.
ATN	Auto-Test, non-audible	Automatically tests and continuously monitors your emergency lighting unit. If a problem occurs, the unit will send a visual (flashing or blinking LED indicator) warning. Complies with Fire Code requirements.
CT	Cab-tire	Unit supplied with a cab-tire cable used for special hardwire applications.
CW1	cold weather, 120Vac	120Vac input cold weather protection feature for applications where temperatures can reach -40° C
CW3	cold weather, 347Vac	347Vac input cold weather protection feature for applications where temperatures can reach -40° C
DPF6	6cct. Fuse panel	Used to facilitate the connection of multiple input load circuits in high power battery units.
HHC	remote test transmitter	Used to perform maintenance tests by means of radio transmitter along with a radio receiver (RRT option) on battery units that are out of reach.
HTR	heather & thermostat	Like a heatblanket, used to keep internal temperature optimal for battery units that are installed in cold environments.
LC	line cord (120V)	When ordering a battery unit with the LC option, we supply and pre-install a line cord with a standard 3 prong 120V plug. Just hang the fixture and plug it in to a standard receptacle! Only available on 120V units.
LD	lamp disconnect	To disconnect the emergency lighting load in an area that is not in use during a prolonged power failure or while area is no longer being occupied.
LS	Laser	Used to remotely test battery units by means of pointing a laser at the battery unit.
LTS	light activated test switch	Used to remotely test battery units by pointing a flashlight at a photocell mounted on the bottom of a battery unit.
TC	teflon coated lens	A protective teflon coating that is applied to the glass lens of a lighting fixture to prevent broken shards from falling in the event the glass is accidentally broken or vandalised.
RRT	remote test receiver	Used to perform maintenance tests by means of radio receiver in conjunction with a transmitter(HHC option) on battery units that are out of reach. Simply point the receiver at the unit.
NEX	Nexus system interface	The NEXUS system interface is a computerized maintenance system for emergency lighting that, once programmed, will perform the tests, keep written records and send notification if anything needs to be fixed. One full system can address hundreds of units in as many buildings as you need from a single location.
T3	15 minutes time delay	Normally, when the a.c. is restored, all emergency lighting lamps are turned off. However, in some cases such as when metal halide lamps are used, it is possible that the general lighting will not be available for several minutes after the blackout (or brownout) period. Battery units with the T3 option will keep some energy in store to ensure that the emergency lighting stays on or comes back on for at least 15 minutes once the regular a.c. power has been restored.
TD	time delay (programmable)	Same as the T3 option but can be programmed for 5, 10, 15 or 20 minutes delay.
TP	tamper proof screws	Screws that require a special bit. Can be used on certain units to deny access to unauthorized personnel.
TL	twistlock plug	Used to facilitate the connection and removal of battery units for maintenance purposes.
TMBB	a.c./d.c. terminal block	Used to facilitate the connection of large gauge input cables.
TMBD	d.c. terminal block	Used to facilitate the connection of large gauge d.c. input cables.
TMBK	a.c. terminal block	Used to facilitate the connection of large gauge a.c. input cables.
V	voltmeter	Indicates voltage being supplied to the battery when in charge mode.