

# RGS-DT Battery Unit

6, 12 and 24 volts, NEMA-12 classified



## Harsh environment emergency lighting units steel, thermoplastic or fiberglass cabinets

The **RGS-DT** Series battery units are specifically designed for use in industrial facilities where equipment is exposed to dust, water, oil or corrosive substances. NEMA-12 classified to protect circuitry from harmful dust or liquid sprays, sealed and gasketed unit cabinets are available in steel, thermoplastic or fiberglass in a variety of sizes.

nexus®



Made in Canada



## Features

- 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 sealed lead acid battery
- Wide range of lampheads available  
Consult Ordering Information for complete list
- Standard 120/347Vac input voltage with line cord kit
- **NEXUS®** compatible
- CSA C22.2 No. 141 certified

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		

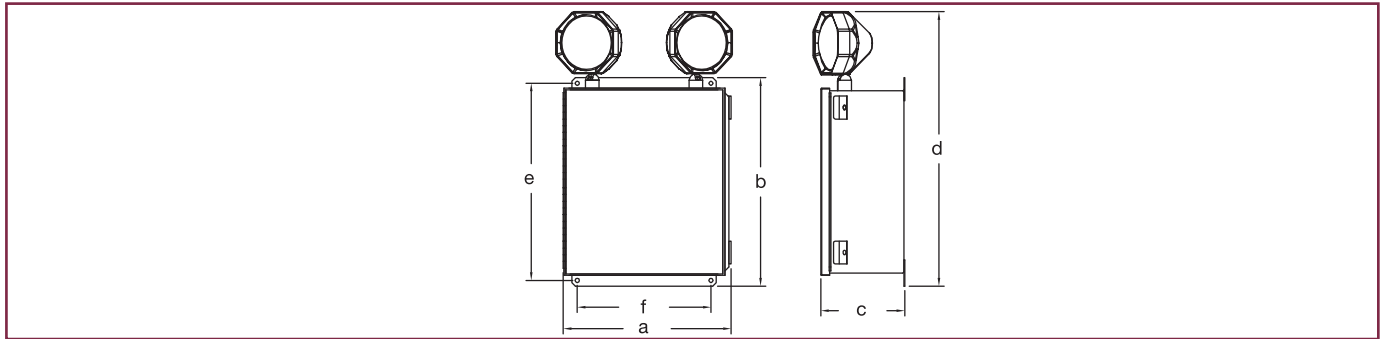


# RGS\*DT SERIES

## Wire Guard

460.0034-L Wall Mount

## Dimensions



Cabinet	Dimensions					
	a	b	c	d	e	f
<b>Thermoplastic Cabinet – size 1</b>	11 5/8 " (29.5 cm)	13 " (32.9 cm)	5 " (12.7 cm)	18 1/4 " (46.4 cm)	13 3/4 " (35.0 cm)	8 " (20.3 cm)
<b>Fiberglass Cabinet – size 2</b>	11 3/8 " (29.0 cm)	13 1/2 " (34.4 cm)	5 1/4 " (13.2 cm)	18 7/8 " (47.9 cm)	13 1/2 " (34.3 cm)	8 1/8 " (20.5 cm)
<b>Fiberglass Cabinet – size 3</b>	13 1/2 " (34.3 cm)	15 1/2 " (39.4 cm)	6 1/4 " (15.9 cm)	20 7/8 " (52.9 cm)	-	-
<b>Fiberglass Cabinet – size 4</b>	17 5/8 " (44.7 cm)	19 5/8 " (49.8 cm)	8 7/8 " (22.4 cm)	25 " (63.5 cm)	-	-
<b>Steel Cabinet – size 5</b>	10 3/4 " (27.4 cm)	13 7/16 " (34.1 cm)	5 1/4 " (13.4 cm)	18 1/2 " (47.1 cm)	12 5/8 " (32.0 cm)	9 " (22.7 cm)
<b>Steel Cabinet – size 6</b>	12 1/2 " (31.9 cm)	15 5/8 " (39.6 cm)	6 1/4 " (15.9 cm)	20 1/2 " (52.1 cm)	14 3/4 " (17.5 cm)	10 " (25.4 cm)

## Replacement Lamps

Model	Lampe Type	Voltage
570.0016-L	Tungsten (LH9W)	6V - 9W
570.0025-L	Tungsten (LH9W)	12V - 9W
570.0045-L	Tungsten (LH9W)	24V - 9W

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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 Pulse charge shall be current limited and precisely regulated by a micro-processing circuit, which samples the battery in relation to its temperature, state or charge

and input voltage fluctuations. 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 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 Lumacell model:  
\_\_\_\_\_.

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



# RGS\*DT SERIES

## Power Consumption and Unit Rating

Model	AC Specs	Wattage Capacity					
		30min	1h00	1h30	2h00	4h00	
RGS36DT	120/347 Vac	0.10/0.04 Amp	36	21	15	12	6
RGS72DT		0.22/0.08 Amp	72	42	30	24	12
RGS108DT		0.22/0.08 Amp	108	63	45	36	18
RGS180DT		0.22/0.08 Amp	180	105	75	60	30
RG12S36DT		0.09/0.03 Amp	36	21	15	12	6
RG12S72DT		0.15/0.06 Amp	72	42	30	24	12
RG12S100DT		0.34/0.12 Amp	100	58	42	33	17
RG12S144DT		0.40/0.14 Amp	144	84	60	48	24
RG12S200DT		0.41/0.14 Amp	200	117	83	67	33
RG12S220DT		0.41/0.14 Amp	220	120	90	72	36
RG12S250DT		0.41/0.14 Amp	250	144	100	83	42
RG12S360DT		0.43/0.15 Amp	360	210	150	120	60
RG24S144DT		0.55/0.20 Amp	144	84	60	48	24
RG24S288DT		0.67/0.23 Amp	288	168	120	96	48
RG24S350DT		0.67/0.23 Amp	350	200	144	120	60
RG24S432DT		0.67/0.23 Amp	432	250	180	144	72
RG24S550DT		0.88/0.33 Amp	550	320	230	180	90
RG24S720DT		0.88/0.33 Amp	720	420	300	240	120

## Ordering Information

Series	Capacity	Housing	# of Heads	Head Style/ Lamp Wattage	A.C. Voltage	Options
RGS= 6V	36= 36 watts	DT= metal	Blank= no head	LH9W= large tungsten, 6V, 12V, 24V - 9 watts, wedge base	Blank= 120/347Vac input ZB= 240Vac input ZC= 277Vac input ZE= 220Vac, 50hz input	A= ammeter
	72= 72 watts	DTF=	1= one head	LH18W= large tungsten, 12V, 24V - 18 watts, wedge base		AT= autotest
	108= 108 watts	thermoplastic	2= two heads	LH25W= large tungsten, 6V, 12V, 24V - 25 watts, DCB		CT= cabtire
	180= 180 watts	DTFG= fiberglass		LHQ8W= large halogen, 6V, 12V - 8 watts, quartz bi-pin		DPF6= 6cct. fuse panel
RG12S= 12V	36= 36 watts			LHQ12W= large halogen, 6V, 12V - 12 watts, quartz bi-pin		HHC= remote test transmitter*
	72= 72 watts			LHQ20W= large halogen, 6V, 12V, 24V - 20 watts, quartz bi-pin		HTR= heater & thermostat
	100= 100 watts			LHQ55W= large halogen, 12V - 55 watts, quartz bi-pin		LC= line cord
	144= 144 watts			LHQ70W= large halogen, 24V - 70 watts, quartz bi-pin		LD= lamp disconnect
	200= 200 watts			SB9W= large tungsten, 6V - 9 watts, sealed beam		LTS= light activated test switch
	250= 250 watts			SB18W= large tungsten, 6V, 12V - 18 watts, sealed beam		NEX= NEXUS® system interface***
	360= 360 watts			SB25W= large tungsten, 6V, 12V, - 25 watts, sealed beam		NEXRF= wireless NEXUS® system interface ***
RG24S= 24V	144= 144 watts			QSB8W= large halogen, 6V, 12V - 8 watts, quartz sealed beam		RRT= remote test receiver**
	288= 288 watts			QSB12W= large halogen, 6V, 12V - 12 watts, quartz sealed beam		TC= teflon coated lens
	350= 350 watts			QSB20W= large halogen, 6V - 20 watts, quartz sealed beam		TD= time delay (programmable)
	432= 432 watts			RB9W= large rubber tungsten, 6V, - 9 watts, sealed beam		TL= twist lock plug
	550= 550 watts			RB18W= large rubber tungsten, 6V, 12V - 18 watts, sealed beam		TMBB= AC/DC terminal block
	720= 720 watts			RB25W= largerubber tungsten, 6V, 12V, - 25 watts, sealed beam		TMBD= DC terminal block
				RBQ8W= large rubber halogen, 6V, 12V - 8 watts, quartz sealed beam		TMBK= AC terminal block
				RBQ12W= large rubber halogen, 6V, 12V - 12 watts, quartz sealed beam		V= voltmeter
				RBQ20W= large rubber halogen, 6V - 20 watts, quartz sealed beam		ATN= non-audible
						* One per order.

**EXAMPLE: RGS36DT2LH9W**