

# Gemma T-bar / Suspended Ceiling Steel Battery Unit

Job/Location: \_\_\_\_\_

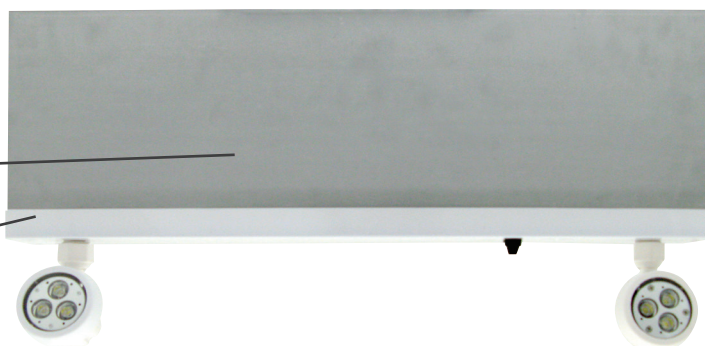
Contractor: \_\_\_\_\_ Prepared By: \_\_\_\_\_

Model Number: \_\_\_\_\_ Date: \_\_\_\_\_

Suitable for T-bar  
grid ceiling

Battery capacity  
up to 320W

20 gauge  
steel housing



Recessed design for  
an architecturally  
pleasing appearance

Stamped conduit  
knockouts provided on  
all sides



## INSTALLATION

The **GEMMA** unit is suitable for installation in T-bar type grid ceiling system. Suitable for indoor location installations.

## INTERNAL SPECIFICATIONS

The **GEMMA** unit is CSA 22.2 No. 141-15 Performance Certified.

## ORDERING INFORMATION

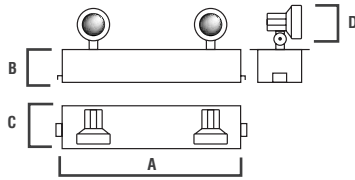
Series	Operation	Capacity (Wattage)	Heads	Lamp Type	Options
GM	6 (Volt DC)	See model rating guide	0 (None)	See lamp guide	NC (Ni-Cd batteries, see guide)
	12 (Volt DC)	(36W-320W)	1SR (PAR18, 1 head)		CC (Custom colour - specify)
	24 (Volt DC)		2SR (PAR18, 2 heads)		LD (Lamp disconnect)
			BTMR1 (MR16 1 head)		FD5 (5 circuit fuse distribution)
			BTMR2 (MR16 2 heads)		AT (Auto-test self-diagnostics)
			1LR (PAR36, 1 head)		*TD (Time delay - specify 5, 10, 20 mins)
			2LR (PAR36, 2 heads)		ACTB (Terminal block AC)
					DCTB (Terminal block DC)
					TP (Tamper proof screws)
					IRT (Infra-red remote test)
					HHC (Controller for IRT)
					*RFS (Radio frequency suppression)
					ADA (Audible alarm)
					**FAI (Fire alarm interface)
					BD (Battery disconnect)
				A (Ammeter)	
				V (Voltmeter)	

NOTE: \*AC Voltage must be specified      \*\* Specify open/closed/6-24 VAC

EXAMPLE: GM-12-72-0

DESCRIPTION: Gemma emergency only battery unit, 12VDC Output, 72W for 30 minutes, no heads

## DIMENSIONS (MM, IN.)



NOTE: Dimension D (see drawing) will vary based on heads supplied

Wattage	A	B	C
36-320	603mm	206mm	121mm
	23 3/4"	8 1/8"	4 3/4"

## LAMP SELECTION

	6V	12V	24V
Composite Tungsten	7.2, 9W	9, 12, 18W	9, 18 W (25 W, PAR36 only)
Composite Quartz (Q)	6, 8, 10, 12W	12, 20 W (55W, PAR36 only)	N/A
MR16 (SR or BTMR)	N/A	20, 35, 50W	N/A
LED-MR16 (SR or BTMR)	5, 7W	2, 5, 7W	5, 7W
LED Module	3, 4W	3, 4W	N/A
Sealed Beam (PAR 36 only)	N/A	6W	6W

## MECHANICAL SPECIFICATIONS

The **GEMMA** is designed to be installed into T-bar type grid ceiling systems. This type of mounting provides a clean and architecturally conscious installation. Once installed, all that remains visible is the attractive front plate and heads. The **GEMMA** has an adjustable T-bar mounting bracket located on each side of the unit that aligns onto the T-bar grid. Various chain holes can also be accessed to chain mount the unit to secure points above the ceiling line.

## LAMP HEAD FEATURES

The **GEMMA** series units are typically supplied with two [2] PAR18 9 watt heads. PAR36 or MR16 style heads are also available. PAR18 heads are constructed of high impact thermoplastic in a colour matching the finish of the cabinet (white is standard).

## BATTERY TECHNOLOGY

The **GEMMA** series is designed with a maintenance free, sealed valve regulated lead acid battery that provides a minimum emergency duration of 30 minutes (for the listed rating). Ni-Cd batteries are optional. Recharge time of the battery is twenty-four [24] hours. The maximum battery operating temperature is +40°C and the minimum is +10°C.

## EXTERNAL SPECIFICATIONS

The **GEMMA** is constructed with a solid and durable 20 gauge steel housing. Remote lamp loads are connected to the emergency power supply with sturdy terminal connectors. These connectors allow for a large gauge of wire to be used, increasing the flexibility of installation. The **GEMMA** is supplied standard in a durable white powder coat, baked finish. Other colours are available, including colour matching, please specify.

## CHARGER SPECIFICATIONS

The **GEMMA** series utilizes a high-efficiency two stage charger providing a fully automatic constant charging current with low voltage disconnect protection. All components used in the circuitry are temperature compensated. The charger also has brownout and short circuit protection. Charger status is easily determined via a dual diagnostic LED display which indicates AC/ON and High Charge. An external push button test switch allows maintenance personnel to quickly determine the operational status of the unit and lamp load.

## MODEL RATING GUIDE

Model	Voltage (output)	Wattage Rating		
		30min	90min	120min
GM-6-36	6	36	12	10
GM-6-50	6	50	18	15
GM-6-100-NC	6	100	42	35
GM-6-160	6	160	60	48
GM-6-180	6	180	72	54
GM-6-180-NC	6	180	90	60
GM-12-72	12	72	27	22
GM-12-90	12	90	36	27
GM-12-100-NC	12	100	45	35
GM-12-120	12	120	65	36
GM-12-150	12	150	65	45
GM-12-180	12	180	72	54
GM-12-200-NC	12	200	90	65
GM-12-200	12	200	72	60
GM-12-250	12	250	108	75
GM-24-144	24	144	60	43
GM-24-180	24	180	75	54
GM-24-200-NC	24	200	100	65
GM-24-320	24	320	136	96

## BEGHELLI AUTO-TEST (AT)

The Beghelli auto-test system automatically performs one 5 minute discharge test monthly and every 6 months it performs two 30 minute discharge tests, 24 hours apart. This tests both full battery capacity and recharge capability. The information is communicated simply and intuitively to maintenance personnel via a single multi-colour LED.