Project	Туре	Aim	∣it△
Catalogue n°	Date		

EBTB T-BAR BATTERY UNIT

The EBTB series of commercial steel T-bar ceiling battery units is designed to blend seamlessly into modern decors. The cabinet, which has been designed to fit into common 2"x4" or 2"x2" grid type suspended ceilings, mounts above the suspended ceiling, leaving only the trim plate visible. The EBTB series is available in 6 VDC, 12 VDC and 24 VDC versions in a range of wattage capacities between 36 W and 320 W, for 30 minutes duration. Units can be fitted with a wide range of lamp head types and options, including auto-testing self-diagnostics and remote testing.



FEATURES & SPECIFICATIONS

CIRCUITRY

- 120/347 VAC 60 Hz Input, field selectable
- High efficiency, rapid recovery, precision control charging system
- 6 VDC, 12 VDC or 24 VDC emergency power output versions (as specified)
- Wattage capacities from 36 W to 320 W
- 30 minutes emergency power duration standard
- Momentary push button test switch
- Diagnostic/pilot LEDs for AC **ON and CHARGE**
- Fully automatic, current limited charger
- Brownout and short circuit protection
- Temperature compensated
- Large magnum terminal

- screw type connectors for remote load connection
- Complete battery recharge in 24 hours
- Maintenance free, sealed lead acid battery
- Optional automatic-testing, self-diagnostic charger hnard:
 - Continuously monitors the operational status of the battery unit
 - Automatically performs battery and lamp load testing at preset intervals
- Indicates any component malfunctions or automated test failures

BLUETOOTH CONTROL

Integrated Bluetooth technology allows for controllable features via the Aimlite Wave

App

- Controllable features include:
- Instantly view and control individual lights and emergency devices
- Easily group luminaires together and control them as a single unit
- Schedule functional and discharge tests at a choosen time
- · Generate, view and share reports seamlessly with iust a few clicks

MECHANICAL

- 20 Gauge steel construction
- One piece frame and trim with slide out recessed housing cover
- All components recess above ceiling - only trim plate is visible

- Self-centering T-bar mounting arms
- Integral eyelet holes for attachment of cable/chain supports
- Multiple conduit entry knockouts
- White powder coat finish standard, other finishes and colors optional
- Lamp heads include PAR18 small style and die cast metal MR16 type

COMPLIANCES

- CSA Certified to C22.2 #141-15
- Meets requirements of ICES-005

OVERVIEW			
INPUT VOLTAGE (VAC)	120/347	OUTPUT POWER (W)	36 - 320
OUTPUT VOLTAGE (VDC)	6, 12, 24		



ICES 005





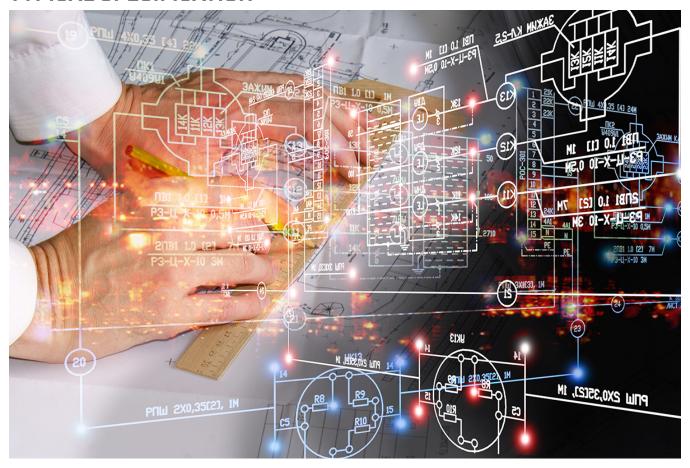
For complete warranty details, please see our terms and conditions on our website.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.



EBTB • REV. 2025-8-21 T 514 227-1288 TF 1866 348-2374 aimlite.com

TYPICAL SPECIFICATION



TYPICAL SPECIFICATION

Supply and install Aimlite EBTB recessed battery unit. The unit shall be rated 120 V, 277 V or 347 V, 60 Hz constructed of durable 18 gauge steel and be CSA listed to C22.2 141-15 and be ICES 005 compliant. The unit shall have an output of: __V and __W and come complete with (0), (1) or (2) x __ W LED heads producing (__) lumens each. The charge voltage factory set to ± 1% tolerance. High efficiency, rapid recovery, precision control charging system 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 at full voltage. The pulse charger shall be precisely regulated and shall charge 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 load when the battery reaches the end of discharge. The Aimlite battery shall come complete with an auto diagnostic micro-controller board and shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall also feature integrated Bluetooth connectivity for monitoring and configuration of the system, allowing users to view system status and perform diagnostics via a mobile app. The Aimlite battery unit shall come complete with the Auto Test function. The automated testing performed by the Aimlite auto test system has been designed to comply with all of the requirements of the National Fire Code. Every month a 5 minute discharge and diagnostic test checks the operational status of the unit. Every 12 months, this test is extended to the full 30 minute, code required duration. This ensures that the battery charger is recharging the battery in accordance with code requirements. The unit shall be Aimlite model: EBTB_



ORDERING GUIDE

ЕВТВ		-				/
SERIES	VOLTS (V)	WATTS	HEAD/LAMP	LAMP TYPE	COLOR	OPTIONS
ЕВТВ	06 - 6 12 - 12 24 - 24	SEE MODEL RATING BELOW	0 - NO HEADS 1SM - ONE PAR18 2SM - TWO PAR18 1MD - ONE MR16 2MD - TWO MR16 1MB - ONE MR16 2MB - TWO MR16	SEE LAMP LIST BELOW	WHT - WHITE (STANDARD) BLK - BLACK	ATD, AUD, AUE', FS6, RMT, LPD, RDS, TDL, BT (BLUETOOTH WAVE OPTION)

¹Only available with ATD and BT.

Note: ATD and BT option available on 6V 36W, 50W models and 12V 36W, 50W, 72W, 100W.

Please consult with your factory representative regarding specific voltage and wattage options.

LAMP SELECTION

	6 VOLTS	12 VOLTS	24 VOLTS	
PAR18 • SMALL HEAD OR LE	D LAMP			
LED	3WLJ, 4WLJ, 5WLJ	3WLJ, 4WLJ, 5WLJ, 6WLA, 7WLA	4WLR, 5WLA, 6WLA, 7WLA	
TUNGSTEN	TWED	ТWED	09WT	
MR16 · SMALL HEAD C/W MR16 OR LED LAMP				
LED	4WLR, 5WLA	4WLR, 5WLA, 6WLA, 7WLA	4WLR, 5WLA, 6WLA, 7WLA	

Note: Due to cabinet/space limitations, not all options are available for all models in any given combination. Please consult with your factory representative regarding specific options and exact cabinet dimension information.

MODEL RATINGS

MODEL	VOLTS	WATTAGE CAPACITIES (W)			
	(V)	30 MIN.	60 MIN.	90 MIN.	120 MIN.
EBTB06036		36	18	12	9
EBTB06050		50	25	16	12
EBTB06072	6	72	36	24	18
EBTB06100		100	50	33	25
EBTB06160		160	80	53	40
EBTB06180		180	90	60	45
EBTB12036		36	18	12	9
EBTB12050		50	25	16	12
EBTB12072		72	36	24	18
EBTB12100	12	100	50	33	25
EBTB12160		160	80	53	40
EBTB12200		200	100	66	50
EBTB12250		250	125	83	62
EBTB24144		144	72	48	36
EBTB24200	24	200	100	66	50
EBTB24320		320	160	106	80

Note: ATD and BT option available on 6V 36W, 50W models and 12V 36W, 50W, 72W, 100W. Please consult with your factory representative regarding specific voltage and wattage options.

LUMEN TABLE

WATTS	LUMENS
3W LJ	313
4W LJ	388
5W LJ	590
4W LR	388
5W LA	435
6W LA	507
7W LA	652

EMERGENCY LIGHTING OPTIONS

	DESCRIPTION		DESCRIPTION
ATD	AUTOMATIC TEST SELF-DIAGNOSTIC	RMT	INFRARED REMOTE TEST
AUD	AUDIBLE ALARM	LPD	LAMP DISCONNECT (INTERNAL)
AUE	AUDIBLE EMERGENCY	RDS	RADIO FREQUENCY SUPPRESSION
FS6	6 CIRCUIT FUSED INTERNAL DISTRIBUTION	TDL	TIME DELAY

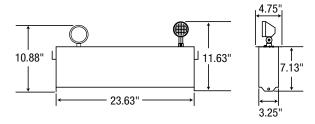


	DESCRIPTION	
ВТ	WAVE BLUETOO	ΤΗ



EBTB

DIMENSIONS



HEADS



TYPE SM - PAR18 Thermoplastic

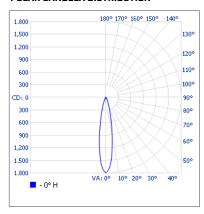
TYPE MD - MR16 Die cast

TYPE MB - MR16 Die cast

PHOTOMETRIC DATA

PAR18-06-12V3WLJ • 309.0 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

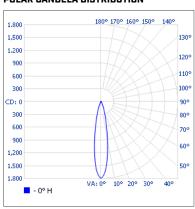
ZONE	LUMENS	% FIXTURE
0-30	282.9	91.6
0-40	297.5	96.3
0-60	306.9	99.3
60-90	2.1	0.7
70-100	0.3	0.1
90-120	0	0
0-90	309.0	100
90-180	0	0
0-180	309.0	100

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM WIDTH	
1.7	622		0.6	
3.3	165		1.1	
5.0	71.8		1.7	
6.7	40.0		2.3	
8.3	26.1		2.8	
10.0	18.0		3.4	
■ Beam Spread: 19.3°				

PAR18-06-12V4WLJ • 429.5 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	325.3	75.7%
0-40	369.4	86%
0-60	410.4	95.5%
60-90	19.2	4.5%
0-90	429.5	100%

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM \	NIDTH
1.7'	402		0.8'	8.2'
3.3'	107		1.6'	16.4'
5.0	46.4		2.4'	24.6'
6.7	25.9		3.2'	32.8'
8.3	16.9		3.9'	41.0'
10.0	11.6		4.7'	49.2'
■ Vert. Spread: 26.6° ■ Hor. Spread: 27.1°				

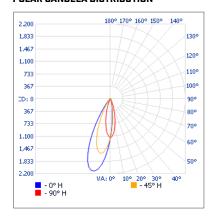
¹ Complete IES files available on our website.



PHOTOMETRIC DATA

PAR18-06-12V5WLJ • 655.3 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

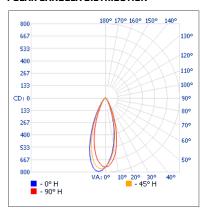
ZONE	LUMENS	% FIXTURE
0-30	515.6	78.7
0-40	595.7	90.9
0-60	637.2	97.2
60-90	18.0	2.8
0-90	655.3	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC BEAM WII				
1.7	396		0.9	0.9
3.3	105	A	1.7	1.7
5.0	45.8		2.5	2.6
6.7	25.5		3.4	3.5
8.3	8.3 16.6		4.2	4.3
10.0	11.5		5.1	5.2
■ Vert. Spread: 28.6° ■ Hor. Spread: 29.4°				

MR16-06-24V4WLR • 228.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

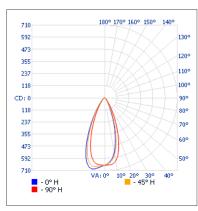
ZONE	LUMENS	% FIXTURE
0-30	164.4	71.9
0-40	182.0	79.6
0-60	214.8	93.9
60-90	13.9	6.1
70-100	4.1	1.8
90-120	0	0
0-90	228.7	100
90-180	0	0
0-180	228.7	100

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM WIDTH	
1.7	168		1.1	
3.3	44.5		2.1	
5.0	19.4		3.2	
6.7	10.8		4.3	
8.3	7.04		5.3	
10.0	4.85		6.4	
■ Beam Spread: 35.4°				

MR16-06-24V5WLA • 440.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	352.6	80
0-40	391.8	88.9
0-60	427.2	96.9
60-90	13.5	3.1
70-100	4.3	1
90-120	0	0
0-90	440.7	100
90-180	0	0
0-180	440.7	100

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC	BEAM	WIDTH	
1.7	407		0.9	1.0
3.3	108		1.7	1.9
5.0	47.0		2.6	2.8
6.7	26.2		3.5	3.8
8.3	17.1		4.3	4.7
10.0	11.8		5.2	5.7
■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°				

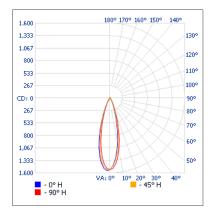
¹ Complete IES files available on our website.



PHOTOMETRIC DATA

MR16-12-24V6WLA • 508.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

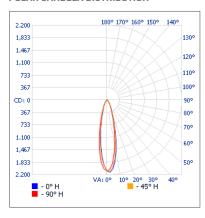
ZONE	LUMENS	% FIXTURE
0-30	470.0	80
0-40	452.3	88.9
0-60	493.1	96.9
60-90	15.6	3.1
70-100	4.9	1
90-120	0	0
0-90	508.7	100
90-180	0	0
0-180	508.7	100

ILLUMINANCE AT A DISTANCE

CENT	ER BEAM FC		BEAM	WIDTH
1.7	470		0.9	1.0
3.3	125		1.7	1.9
5.0	54.3		2.6	2.8
6.7	30.2		3.5	3.8
8.3	19.7		4.3	4.7
10.0	13.6		5.2	5.7
■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°				

MR16-12-24V7WLA · 635.2 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	508.2	80
0-40	564.7	88.9
0-60	615.7	96.9
60-90	19.5	3.1
70-100	6.1	1
90-120	0	0
0-90	635.2	100
90-180	0	0
0-180	635.2	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC B				WIDTH
1.7	587		0.9	1.0
3.3	156		1.7	1.9
5.0	67.8		2.6	2.8
6.7	37.8		3.5	3.8
8.3	24.6		4.3	4.7
10.0	16.9		5.2	5.7
■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°				

 $^{^{\}rm 1}$ Complete IES files available on our website.

