

EBST

STEEL BATTERY UNIT



The EBST series of commercial steel battery units is designed to provide efficient and reliable emergency lighting. Utilizing a sturdy, all steel housing, the EBST presents a modern and unobtrusive design. On higher capacity models, the cabinet front is sloped to allow better internal access and superior low angle light distribution. The EBST series is available in 6VDC, 12VDC and 24VDC versions in a range of wattage capacities between 18 and 720W, for 30 minutes duration.

Units are typically supplied with two top mounted PAR18, however a wide range of head type, number and placement are available including MR16 type. The EBST can also accommodate a wide variety of options, including auto-testing self-diagnostics and remote testing.

FEATURES & SPECIFICATIONS

CIRCUITRY

- 120/347 or 277 VAC 60 Hz Input
- 6 VDC, 12 VDC or 24 VDC emergency power output versions (as specified)
- Wattage capacities from 18 to 720 W
- 30 Minutes emergency power duration standard
- Momentary push button test switch

- Diagnostic/pilot LEDs for AC ON and CHARGE
- Maintenance free, sealed lead acid battery
- Optional automatic-testing, self-diagnostic charger board

MECHANICAL

- Rugged steel cabinet with ultraguard rust-coating
- 120 VAC line cord supplied standard

- Universal spider knockout pattern and keyhole mounting slots stamped into back of cabinet
- Multiple conduit entry knockouts
- White powder coat finish standard, other finishes and Colours optional
- Lamp heads include PAR18 small style, and die cast metal MR16 type

- Top head mounting is standard, side mount is optional

COMPLIANCES

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

OVERVIEW	
INPUT VOLTAGE (VAC)	120/347, 277
OUTPUT VOLTAGE (VDC)	6, 12, 24
OUTPUT POWER (W)	UP TO 720
  	

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.

WIREGUARD

		PART NUMBER	DIMENSIONS (IN)
WITHOUT HEAD	CABINET A	WGD520	14 x 10 x 4.75
	CABINET B	WGD520	14 x 10 x 4.75
	CABINET C	WGD510	17.25 x 17.25 x 7
	CABINET D	WGD650	13.75 x 12.25 x 16.5
WITH HEAD(S)	CABINET A	WGD590	15.25 x 14.25 x 6.75
	CABINET B	WGD590	15.25 x 14.25 x 6.75
	CABINET C	WGD510	17.25 x 17.25 x 7
	CABINET D	WGD650	13.75 x 12.25 x 16.5

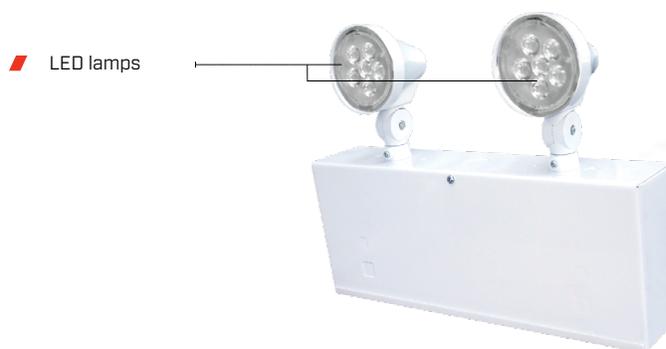
LAMP SELECTION

	6 VOLTS	12 VOLTS	24 VOLTS
PAR18 - SMALL HEAD OR LED LAMP			
LED	3WLJ, 4WLJ, 5WLJ	3WLJ, 4WLJ, 5WLJ, 6WLA, 7WLA	4WLR, 5WLA, 6WLA, 7WLA
QUARTZ HALOGEN	10WQ	10WQ, 12WQ	12WQ
TUNGSTEN	09WT	09WT	09WT, 18WT
MR16 - SMALL HEAD C/W MR16 OR LED LAMP			
LED	4WLR, 5WLA	4WLR, 5WLA, 6WLA, 7WLA	4WLR, 5WLA, 6WLA, 7WLA
QUARTZ HALOGEN	10WQ	12WQ, 20WQ, 35WQ	12WQ, 20WQ

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.

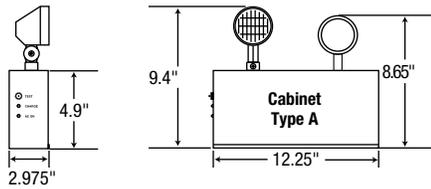
MODEL RATINGS

WATTAGE CAPACITIES (W)					
MODEL	VOLTS (V)	30 MIN.	90 MIN.	120 MIN.	CABINET
EBST06018	6	18	N/A	N/A	A
EBST06036	6	36	12	9	A
EBST06050	6	50	16	12	A
EBST06072	6	72	24	18	B
EBST06100	6	100	33	25	B
EBST06160	6	160	53	40	C
EBST06180	6	180	60	45	C
EBST12036	12	36	12	9	A
EBST12050	12	50	16	13	A
EBST12072	12	72	24	18	A
EBST12100	12	100	33	25	B
EBST12144	12	144	48	36	C
EBST12160	12	160	53	40	C
EBST12200	12	200	66	50	C
EBST12250	12	250	83	63	D
EBST12360	12	360	120	90	D
EBST24144	24	144	48	36	C
EBST24200	24	200	66	50	C
EBST24320	24	320	106	80	D
EBST24350	24	350	116	88	E
EBST24550	24	550	183	138	E
EBST24720	24	720	240	180	E

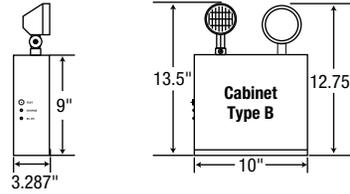


DIMENSIONS

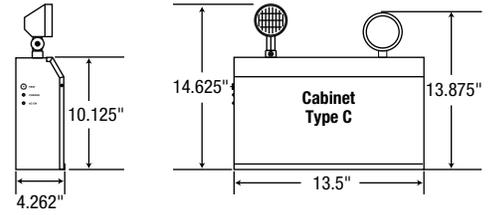
CABINET TYPE A



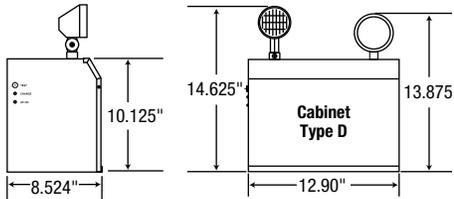
CABINET TYPE B



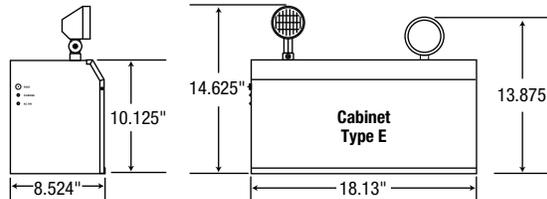
CABINET TYPE C



CABINET TYPE D

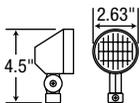


CABINET TYPE E



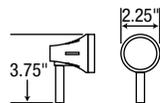
TYPE SM - PAR18

Thermoplastic
18 W max.



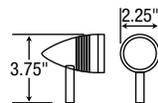
TYPE MD - MR16

Die cast
35 W max.



TYPE MB - MR16

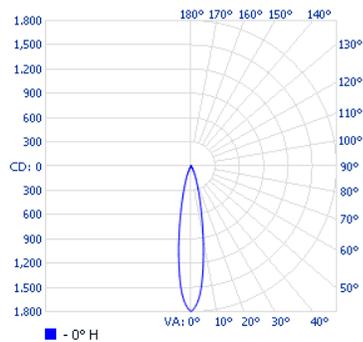
Die cast
35 W max.



PHOTOMETRIC DATA¹

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%

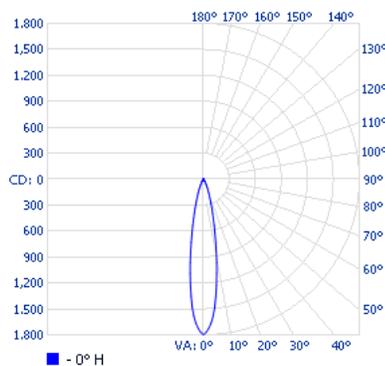
ILLUMINANCE AT A DISTANCE

CENTER 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%

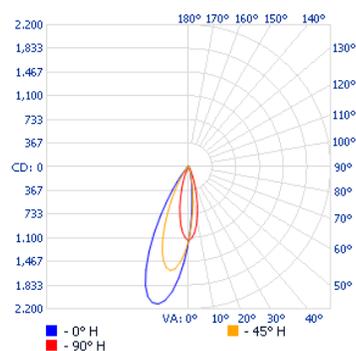
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
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°

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 WIDTH	
1.7'	396		0.9'	0.9'
3.3'	105	1.7'	1.7'	
5.0	45.8	2.5'	2.6'	
6.7	25.5	3.4'	3.5'	
8.3	16.6	4.2'	4.3'	
10.0	11.5	5.1'	5.2'	

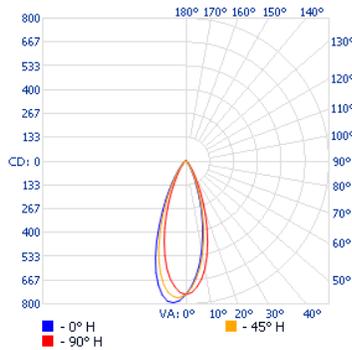
■ Vert. Spread: 28.6° ■ Hor. Spread: 29.4°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

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%

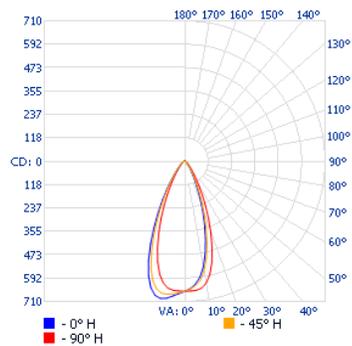
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH
1.7'	168	
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%

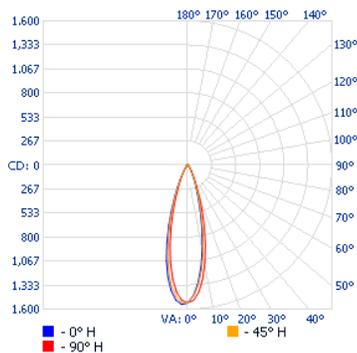
ILLUMINANCE AT A DISTANCE

CENTER 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°

MR16-12-24V6WLA • 508.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	407.0	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

CENTER 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'

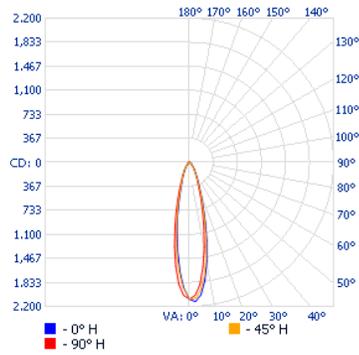
■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

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		BEAM 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	16.9'	5.7'

■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°

¹ Complete IES files available on our website.