Replacement BH Voltage driver for use on Appleton™ 13,500 and 17,500 Lumen Mercmaster™ LED Generation 3, 13,500 and 17,500 Lumen Industrial Mercmaster™ LED Generation 3, 15K and 19K Lumen Areamaster™ Generation 2 LED, 15K and 19K Lumen Industrial Areamaster™ Generation 2 LED, 30K and 38K Lumen Areamaster™ Generation 2 HL LED, 30K and 38K Lumen Industrial Areamaster™ Generation 2 HL LED, 15K and 19K Lumen Baymaster™ LED and 15K and 19K Lumen Industrial Baymaster™ LED, 30K and 38K Lumen Baymaster™ HL LED and 30K and 38K Lumen Industrial Baymaster™ HL LED.

Features

- Input voltage: 347-480 Vac
- Built-in active PFC function: 0.98 typ.
- Built-in lightning protection
- High efficiency: 90% typ.
- Waterproof (IP67)
- Constant current/0-10V dimming/clock dimming (CLK)/ PWM dimming Protection: OVP, SCP, OTP
- UL Type TL, Type HL

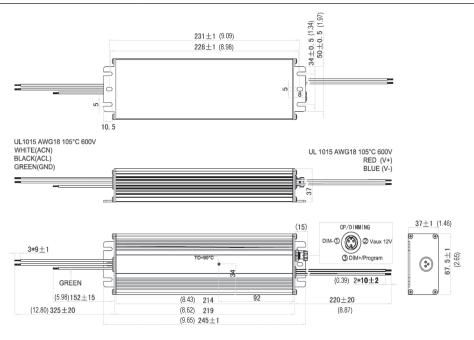


NEC/CEC Compliances

• UL8750, UL1012, CSA 250.13

Output Current	Input Voltage	Max. Output Power	Typical Efficiency	Typical Power Factor	Used in BH Luminaire Models	Part Number
650 mA	347-480 Vac	150 W	90%	0.98	AMLGL7W and AMLHL2W BLLL7W and BLLPL7W BHLL2W and BHLPL2W	APMS150C105HD65
680 mA	347-480 Vac	150 W	90%	0.98	AMLGL7C and AMLHL2C BLLL7C and BLLPL7C BHLL2C and BHLPL2C	APMS150C105HD68
720 mA	347-480 Vac	150 W	90%	0.98	MLGH3	APMS150C105HD72
890 mA	347-480 Vac	150 W	90%	0.98	AMLGL8W and AMLHL3W BLLL8W and BLLPL8W BHLL3W and BHLPL3W	APMS150C105HD89
900 mA	347-480 Vac	150 W	90%	0.98	MLGH6	APMS150C105HD90
915 mA	347-480 Vac	150 W	90%	0.98	AMLHL3C BHLL3C/BHLPL3C	APMS150C105HD91
930 mA	347-480 Vac	150 W	90%	0.98	AMLGL8C BLLL8C/BLLPL8C	APMS150C105HD93

Dimensions in Millimeters (Inches)

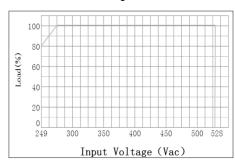




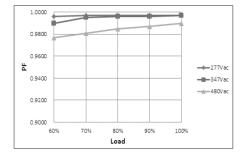
Replacement BH Voltage driver for use on Appleton™ 13,500 and 17,500 Lumen Mercmaster™ LED Generation 3, 13,500 and 17,500 Lumen Industrial Mercmaster™ LED Generation 3, 15K and 19K Lumen Areamaster™ Generation 2 LED, 15K and 19K Lumen Industrial Areamaster™ Generation 2 LED, 30K and 38K Lumen Areamaster™ Generation 2 HL LED, 30K and 38K Lumen Industrial Areamaster™ Generation 2 HL LED, 15K and 19K Lumen Baymaster™ LED and 15K and 19K Lumen Industrial Baymaster™ LED, 30K and 38K Lumen Baymaster™ HL LED and 30K and 38K Lumen Industrial Baymaster™ HL LED.

Diagrams

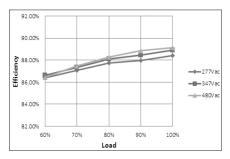
Derating Curve



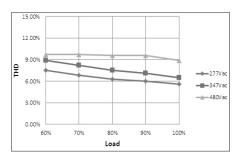
Power Factor vs. Load Curve



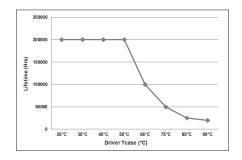
Efficiency vs. Load Curve



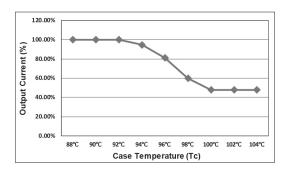
THD Curve



Lifetime vs. Driver Tcase



ОТР



Replacement BH Voltage driver for use on Appleton™ 13,500 and 17,500 Lumen Mercmaster™ LED Generation 3, 13,500 and 17,500 Lumen Industrial Mercmaster™ LED Generation 3, 15K and 19K Lumen Areamaster™ Generation 2 LED, 30K and 38K Lumen Areamaster™ Generation 2 HL LED, 30K and 38K Lumen Industrial Areamaster™ Generation 2 HL LED, 30K and 38K Lumen Industrial Areamaster™ Generation 2 HL LED, 30K and 38K Lumen Baymaster™ LED and 15K and 19K Lumen Industrial Baymaster™ HL LED.

Specifications ①		
	Efficiency (277 Vac) ②	88% (Typical), >86% at full load
	Efficiency (480 Vac) ②	90% (Typical), >88% at full load
	Voltage Range (V)	249–528 Vac
	Frequency Range (Hz)	47 ~ 63
	Power Factor	0.96 (Typical), 0.94 (minimum) at 480 Vac
Input	Power Factor	>0.9 with 60% ~ 100% load, at 277 ~ 480 Vac
	TUD	<15% with 80% ~ 100% load, at 277 ~ 480 Vac
	THD	<20% with 60% ~ 100% load, at 277 ~ 480 Vac
	AC Current (Max.)	0.72 A max. at 277 Vac
	Inrush Current (Max.)	65 A at 480 Vac input +25 °C Cold Start (time wide=500 uS, measured at 50% lpeak)
	Leakage Current (Max.)	0.75 mA at 480 Vac/50 Hz
	Output Voltage Range (V)	214–86
	Output Current Range (mA)	70–1050
	Rated Power (W)	150 (max.)
	Output Current Settable Range	0.45 to 1.05 A dc
Output	Constant Power Output Set Range	65% lo_max ~ 100% lo_max
·	Ripple Current	<10% [(PK-AV) /AV], full load
	Current Tolerance	5%
	Line Regulation	3%
	Load Regulation	5%
	Turn on Delay Time	2s (typ.), measured at 277 Vac input
	12 Vdc Output Voltage (Vdc)	10.8 V min. ~ 12 V typ. ~ 13.2 V max.
	12 Vdc Output Current (mA)	0 mA ~ 20 mA max.
Dimming Control	0 ~ 10V/DMI+ Voltage	Absolute maximum voltage -10 V min ~ 20 V max
	0 ~ 10V/DMI+ Short Current	280 uA ~ 450 uA (DIM(+)=0)
	Dimming Function	0 ~ 10 V/10% lo ~ 100% lo

Replacement BH Voltage driver for use on AppletonTM 13,500 and 17,500 Lumen MercmasterTM LED Generation 3, 13,500 and 17,500 Lumen Industrial MercmasterTM LED Generation 3, 15K and 19K Lumen AreamasterTM Generation 2 LED, 30K and 38K Lumen AreamasterTM Generation 2 HL LED, 30K and 38K Lumen Industrial AreamasterTM Generation 2 HL LED, 15K and 19K Lumen BaymasterTM LED and 15K and 19K Lumen Industrial BaymasterTM HL LED.

ecifications ①				
	Over Voltage (V)	<280V Protection type: Voltage limiting output will not exceed the upper limit voltage, recovers automatically after fault condition is removed.		
Protection	Short Circuit	Protection type: Hiccup mode; recovers automatically after short is removed.		
	Over Temperature	Protection type: Decrease output current. When Tc reaches +100 °C +/- +10 °C, the output current decrease to approxim 50% of rated value. (See OTP plot.)		
	Operating Humidity	20 ~ 95% RH non-condensing		
	Tc	-40 °C to +90 °C max.		
Environment	Storage Temp., Humidity	-40 °C~ +85°C, 10–95% RH		
	Vibration	10-500 Hz, 5G 12 min./cycle, period for 72 min. each along X, Y, Z axes		
	Safety Standard	UL8750, UL1012, CSA 250.13		
	Withstand Voltage	I/P-O/P:3.75K Vac I/P-FG:1.875KV O/P-FG:1.5KV		
	Isolation Resistance	I/P-O/P:100M Ohms (500Vdc/25°C/70%RH)		
Safety & EMC	EMC Emission	Conducted Emission: FCC PART 15 Class A, Radiated Emission: FCC PART 15 Class A		
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61000-4-5: Line to Neutral: ±6kV; Line to GND: ±6kV; Neutral to GND: ±6kV. IEEE / ANSI C62.41.2 Transient surge requirements, combi wave 2 ohm source impedance		
	MTBF	300,000 hours, measured at full load, +25 °C ambient temperature MIL-HDBK-217F (+25 °C)		
Others	Lifetime	Refer to plot		
Othoro	Dimension	245 x 67.5 x 37 mm (L x W x H); (9.65 x 2.66 x 1.46 inches)		
	Weight (Typ.)	1050 g (2.31 lb)		

① All parameters NOT specially mentioned are measured at 480 Vac input, rated load and 25°C of ambient



[©] Measured at full load and steady-state temperature in 25°C ambient (Efficiency will be about 2% lower if measured immediately after startup)