Replacement BH Voltage driver for use on the following Appleton™ LED Luminaires: 13,500 and 17,500 Lumen Mercmaster™ LED Generation 3 and Industrial Mercmaster LED Generation 3; ,15,000 and 19,500 Lumen Areamaster™ Generation 2 LED and Industrial Areamaster Generation 2 LED; 30,000 and 38,000 Lumen Areamaster Generation 2 HL LED and Industrial Areamaster Generation 2 HL LED; 15,000 and 19,500 Lumen Baymaster™ LED and Industrial Baymaster™ LED; 13,600, 16,700 and 19,300 Lumen Code●Master™ LED

Features

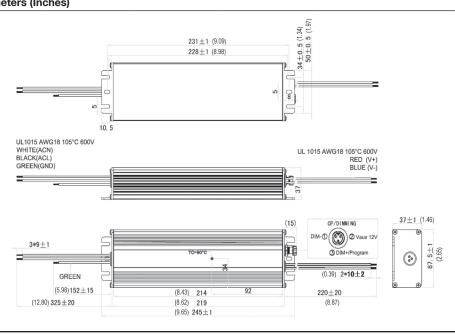
- Input voltage: 347-480 Vac
- Built-in active PFC function: 0.98 typ.
- Built-in lightning protection
- · High efficiency: 90% typ.
- Waterproof (IP67)
- Constant current/0–10V dimming/clock dimming (CLK)/ PWM dimming
- Protection: OVP, SCP, OTP
- UL Type TL, Type HL



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 CMLED40	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		
820 mA	347-480 Vac	150 W	90%	0.98	CMLED75	APMS150C105HD82		
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		
980 mA	347-480 Vac	150 W	90%	0.98	CMLED90	APMS150C105HD98		
Dimensions in	Dimensions in Millimeters (Inches)							

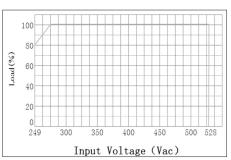




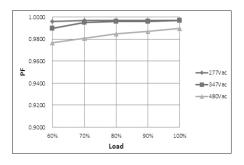
Replacement BH Voltage driver for use on the following Appleton™ LED Luminaires: 13,500 and 17,500 Lumen Mercmaster™ LED Generation 3 and Industrial Mercmaster LED Generation 3; ,15,000 and 19,500 Lumen Areamaster™ Generation 2 LED and Industrial Areamaster Generation 2 LED; 30,000 and 38,000 Lumen Areamaster Generation 2 HL LED and Industrial Areamaster Generation 2 HL LED; 15,000 and 19,500 Lumen Baymaster™ LED and Industrial Baymaster™ LED; 30,000 and 38,000 Lumen Baymaster HL LED Industrial Baymaster HL LED; 13,600, 16,700 and 19,300 Lumen Code Master™ LED

Diagrams

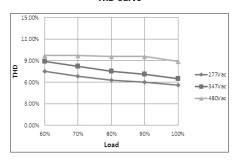




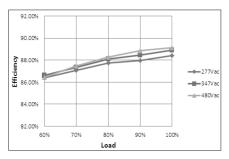
Power Factor vs. Load Curve



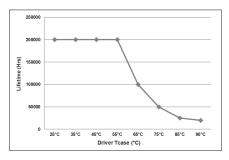
THD Curve



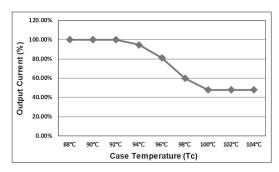
Efficiency vs. Load Curve



Lifetime vs. Driver Tcase







EMERSON

Replacement BH Voltage driver for use on the following AppletonTM LED Luminaires: 13,500 and 17,500 Lumen MercmasterTM LED Generation 3 and Industrial Mercmaster LED Generation 3; ,15,000 and 19,500 Lumen AreamasterTM Generation 2 LED and Industrial Areamaster Generation 2 LED; 30,000 and 38,000 Lumen Areamaster Generation 2 HL LED and Industrial Areamaster Generation 2 HL LED; 15,000 and 19,500 Lumen BaymasterTM LED and Industrial BaymasterTM LED; 13,600, 16,700 and 19,300 Lumen Code•MasterTM 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		>0.9 with 60% ~ 100% load, at 277 ~ 480 Vac		
	THD	<15% with 80% ~ 100% load, at 277 ~ 480 Vac		
		<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		
	Constant Power Output Set Range	65% lo_max ~ 100% lo_max		
Output	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		

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



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

Replacement BH Voltage driver for use on the following Appleton™ LED Luminaires: 13,500 and 17,500 Lumen Mercmaster™ LED Generation 3 and Industrial Mercmaster LED Generation 3; ,15,000 and 19,500 Lumen Areamaster™ Generation 2 LED and Industrial Areamaster Generation 2 LED; 30,000 and 38,000 Lumen Areamaster Generation 2 HL LED and Industrial Areamaster Generation 2 HL LED; 15,000 and 19,500 Lumen Baymaster™ LED and Industrial Baymaster™ LED; 30,000 and 38,000 Lumen Baymaster HL LED Industrial Baymaster HL LED; 13,600, 16,700 and 19,300 Lumen Code Master™ LED

Specifications 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 approximate 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		
ouicis	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)		

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



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