Replacement BU Voltage driver for use on the following Appleton[™] LED Luminaires: 7500, 9,500, and 11,500 Lumen Mercmaster[™] LED Generation 3 and Industrial Mercmaster LED Generation 3; 9500 Lumen Areamaster[™] Generation 2 LED and Industrial Areamaster Generation 2 LED; 2400 Lumen Areamaster Generation 2 HL LED and Industrial Areamaster[™] Generation 2 HL LED; 9500 Lumen Baymaster[™] LED and Industrial Baymaster LED; 2400 Lumen Baymaster HL LED and Industrial Baymaster HL LED; 7900, 10,000, 11,600 Lumen Code•Master[™] LED

Features

- Input voltage: 90–305 Vac
- Built-in active PFC function: 0.98Typ.
- Built-in lightning protection
- High efficiency: 90% Typ.
- Waterproof (IP67)
- Constant Current / 0–10V Dimming
- Protection: OVP, SCP, OTP
- Type HL

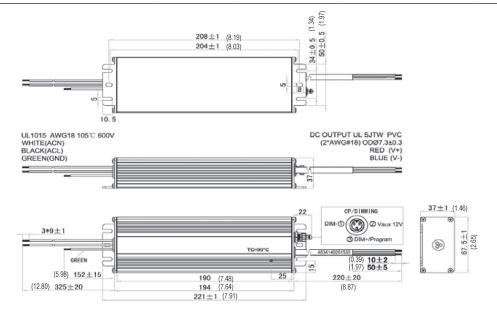
NEC/CEC Compliances

- UL8750; UL1012; CAN/CSA-C22.2 No.107-01
- IEC/EN61347-1; IEC/EN61347-2-13

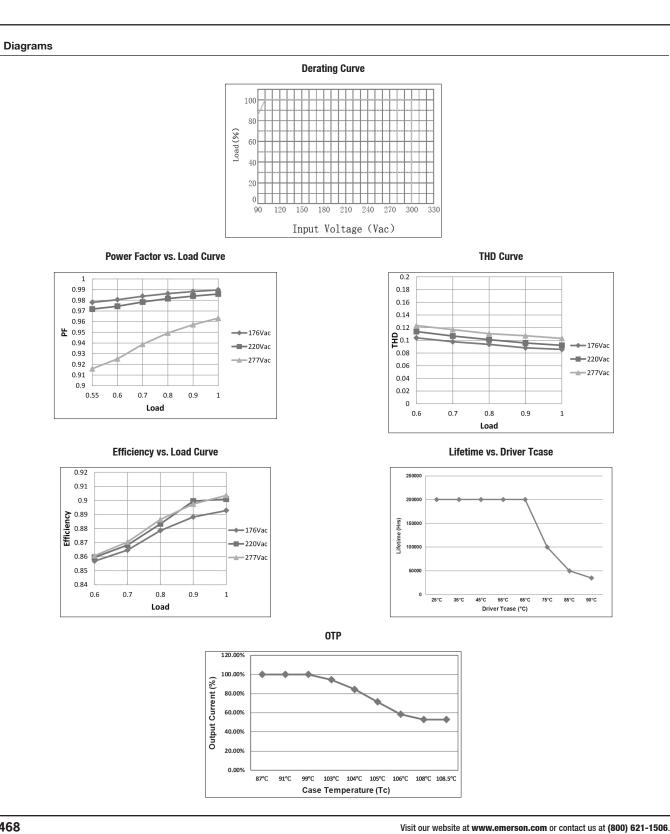


Output Current	Input Voltage	Max. Output Power	Typical Efficiency	Typical Power Factor	Used in BU Luminaire Models	Part Number
360 mA	90-305 Vac 125-300 Vdc	100 W	90%	0.98	MLGL7	APMS100C105UD36
370 mA	90-305 Vac 125-300 Vdc	100 W	90%	0.98	CMLED17	APMS100C105UD37
410 mA	90-305 Vac 125-300 Vdc	100 W	90%	0.98	AMLGL6C and AMLGL6W BLLL6C/BLLPL6C BLLL6W/BLLPL6W	APMS100C105UD41
480 mA	90-305 Vac 125-300 Vdc	100 W	90%	0.98	MLGL9 and MLGH9 CMLED25	APMS100C105UD48
530 mA	90-305 Vac 125-300 Vdc	100 W	90%	0.98	AMLHL1C and AMLHL1W BHLL1C/BHLPL1C BHLL1W/BHLPL1W	APMS100C105UD53
570 mA	90-305 Vac 125-300 Vdc	100 W	90%	0.98	CMLED35	APMS100C105UD57
595 mA	90-305 Vac 125-300 Vdc	100 W	90%	0.98	MLGH1	APMS100C105UD59

Dimensions in Millimeters (Inches)



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	Efficiency (120 Vac) 2	88% (Typical), >86% at full load		
	Efficiency (230 Vac) 2	90% (Typical), >88% at full load		
	Voltage Range (V)	90–305 Vac		
	Voltage Rated (V)	100–277 Vac, or 125–300 Vdc (min.–max.)		
	Frequency Range (Hz)	47 ~ 63		
Input	Power Factor	0.98 (typical) at 220 Vac		
mpar	Power Factor	>0.9 @120-277 Vac, 80-100% load		
	THD	<15% with 80% ~ 100% load, at 100-277 Vac		
		<20% with 50% ~ 100% load, at 100–277 Vac		
	AC Current (Max.)	1.35 A max. at 110 Vac		
	Inrush Current (Max.)	65 A at 230 Vac input +25 °C Cold Start (time wide=500 uS, measured at 50% lpeak)		
	Leakage Current (Max.)	0.75 mA at 277 Vac/60 Hz		
	Output Voltage Range (V)	150–57		
	Output Current Range (mA)	70–1050		
	Output Current Settable Range	0.45-1.05 A dc		
	Rated Power (W)	100 (max.)		
Output	Ripple Current	<10% [(PK-AV)/AV] full load		
	Current Tolerance	5%		
	Line Regulation	1%		
	Load Regulation	3%		
	Turn On Delay Time	0.5s (typ.)		
	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.		
nming 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 ref.		

① Measured at full load and steady-state temperature in 25 °C ambient (Efficiency will be about 2% lower if measured immediately after startup)

Replacement BU Voltage driver for use on the following Appleton[™] LED Luminaires: 7500, 9,500, and 11,500 Lumen Mercmaster[™] LED Generation 3 and Industrial Mercmaster LED Generation 3; 9500 Lumen Areamaster[™] Generation 2 LED and Industrial Areamaster Generation 2 LED; 2400 Lumen Areamaster Generation 2 HL LED and Industrial Areamaster[™] Generation 2 HL LED; 9500 Lumen Baymaster[™] LED and Industrial Baymaster LED; 2400 Lumen Baymaster HL LED and Industrial Baymaster HL LED; 7900, 10,000, 11,600 Lumen Code•Master[™] LED

		<200 Protection type: Voltage limiting output will not exceed the upper limit voltage, recovers automatically after fault condition is removed. Protection type: Hiccup mode. Recovers automatically after short is removed.		
Protection	Over Voltage (V)			
	Short Circuit			
	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.)		
	Lightning Surge Protection	Per IEEE C62.41.2202 (6 kV, 1.2/50 ms, 8/20 ms combination wave with 2 ohms source impedance, L-N, L-PE, N-PE)		
Environment	Maximum Case Temperature	+90 °C		
	Minimum Case Temperature	-40 °C		
	Operating Humidity	20 ~ 95% RH non-condensing		
	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 & EMC	Agency Approbations	UL8750; UL1012; CAN/CSA-C22.2 No.107-01; IEC/EN61347-1; IEC/EN61347-2-13		
	Withstand Voltage	I/P-O/P:3.75 K Vac I/P-FG:1.875 KV O/P-FG:1.5 KV		
	Isolation Resistance	I/P-O/P:100 M Ohms (500VDC/25°C/70%RH)		
	EMC Emission	FCC PART15 Class B, EN55015, EN61000-3-2 Class C, EN61000-3-3		
	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.		
Others	MTBF	300,000 hours, measured at full load, +25 °C ambient temperature, MIL-HDBK-217F (+25 °C)		
	Lifetime	Refer to plot		
	Dimension	183 x 67.5 x 37 mm (L x W x H); (7.20 x 2.66 x 1.46 inches)		
	Weight (Typ.)	820 g (1.8 lbs)		

① All parameters NOT specially mentioned are measured at 230 Vac input, rated load and 25 °C of ambient temperature.

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