



Features

- Wide input range: 90-305Vac
- Constant power mode operation
- Constant lumen output
- 3-in-1 dimming function (0-10Vdc, PWM Signal, Timer), dim-to-off
- Surge protection: Line-Line 5KV / Line-Earth 10KV
- · Output and dimming signal isolated
- Output over-voltage, over-temperature and short-circuit protections
- IP67 enclosure for indoor and outdoor applications
- UL 8750 recognized

Applications

Roadway lighting, industrial lighting, plant lighting and landscape lighting

Selection Guide

Part Number	Max. Output Power (W)	Output Voltage Range (Vdc)	Full Power Output Voltage Range (Vdc)	Full Power Current Adjustable Range (A)	Default Output Current (A)	Typical Efficiency	
LUB105X-041C		20-41	30-41	2.56-3.50	2.80	90%	
LUB105X-062C	105	38-62	42-62	1.69-2.50	2.10	91%	
LUB105X-100C	105	50-100	75-100	1.05-1.40	1.40	92%	
LUB105X-150C		75-150	100-150	0.70-1.05	1.05	92%	

Note: X in the Part Number can be either M or V, M means 3-in-1 dimming function and offline programmable; V means non-dimmable and output current adjustable via built-in potentiometer.

Input Specifications

Parameter	Notes & Conditions	Min	Typical	Max	Unit
Input Voltage Range	AC input	90	100-277	305	Vac
Input Frequency Range		47	50/60	63	Hz
Input Current	100-277Vac input, full load	-	-	1.5	Α
	115Vac input, full load	0.97	0.99	-	
Power Factor	230Vac input, full load	0.95	0.97	-	-
	277Vac input, full load	0.92	0.95	-	
Inrush Current	230Vac input, full load, cold start	-	-	75	Α
Leakage Current	277Vac input, 50Hz	-	-	0.7	mA
Standby Power Consumption	M types	-	-	2	W
THD	100-240Vac input, 50-100% of full load	-	5	10	0,
וחט	277Vac input, 70-100% of full load	-	-	10	%

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Output Specifications

Output Specifications Parameter	Notes & Conditions	Min	Typical	Max	Unit
Output Current Tolerance Full load		-5	-	+5	%Iset
Output Current Set Point Range LUB105M-041C LUB105M-062C LUB105M-100C LUB105M-150C		0.35 0.25 0.14 0.11	- - -	3.50 2.50 1.40 1.05	А
Output Current Set Point Range LUB105V-041C LUB105V-062C LUB105V-100C LUB105V-150C		1.75 1.25 0.70 0.50	- - -	3.50 2.50 1.40 1.05	А
Output Current Set Point Range LUB105X-041C LUB105X-062C LUB105X-100C LUB105X-150C	Constant power	2.56 1.69 1.05 0.70	- - -	3.50 2.50 1.40 1.05	А
Total Output Current Ripple	230Vac input, full LED load, peak-peak	-	5	10	%
Startup Overshoot Current	100-277Vac input, full LED load	-	-	10	%Iset
Output Voltage LUB105X-041C LUB105X-062C LUB105X-100C LUB105X-150C No load		- - -	- - -	50 70 120 170	V
Line Regulation	100-277Vac input	-1	-	+1	%
Load Regulation 230Vac input, 60-100% of full load		-3	-	+3	%
T Delay	115Vac input, full load	-	1	2	
Turn-on Delay	230Vac input, full load	-	-	0.5	S
Efficiency _UB105X-041C		87 87 88 88 88 88 89	89 89 90 90 90 90	- - - - -	%
Efficiency LUB105X-041C	230Vac input, full load	88 88 89 89 90 90	90 90 91 91 92 92 92	- - - - -	%
IO = 1.05A Efficiency LUB105X-041C		88 88 89 89	90 90 91 91	- - -	%

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LUB105X-100C				
Io = 1.05A	90	92	-	
Io = 1.40A	90	92	-	
LUB105X-150C				
Io = 0.70A	90	92	-	
$I_0 = 1.05A$	90	92	_	

Note: Unless otherwise specified, data in this datasheet should be tested under the conditions of 230Vac input, rated load and Ta=25°C.

Protection Specifications

Parameter	Notes
Over Voltage Protection	The driver will enter protection mode and will resume normal operation when the fault condition is cleared.
Over Temperature Protection	The output current will decrease up to 30% of its set point, and will return to its set point when the over temperature condition is cleared.
Short-circuit Protection	The driver will enter constant current/auto recovery mode. No damage will occur when the output is shorted. The output current will return to its set point when the fault condition is cleared.

Environmental and Other Specifications

Parameter	Notes & Conditions		Min	Typical	Max	Unit
Ambient Temperature	Та	Та		-	+60	°C
Operating Case Temperature	Тс		-40	-	+90	°C
Storage Temperature			-40	-	+85	°C
Storage Relative Humidity			5	-	100	%RH
	Input-Output		-	3,750	-	Vac
Isolation Voltage	Input-PE	leakage current less than 5mA, 60s	-	1,600	-	
	Output-PE		-	1,600	-	
Insulation Resistance		Input-Output/Input-PE/Output-PE, 500Vdc/60s /70%RH		-	-	MΩ
Grounding Resistance	25A/60s	25A/60s		-	0.1	Ω
Life Time	230Vac,full load, 7	230Vac,full load, 75°C case temperature		50	-	10 ³ hrs
MTBF(MIL-HDBK-217F)	230Vac input, 80% of full load		-	200	-	10 ³ hrs
Dimensions (L*W*H)		153.6	x 68.0 x 37.0	mm		
Weight						

Dimming Specifications

Parameter		Notes & Conditions	Min	Typical	Max	Unit	
Absolute Maximum Voltage		0-10V on the DIM +	-	10	-	V	
Source Current		0-10V on the DIM +	-	0.1	0.2	mA	
		LUB105M-041C	0.35	-	3.50		
Dimming Outp	out Bongo	LUB105M-062C	0.25	-	2.50	А	
Diffilling Outp	out Kange	LUB105M-100C	0.14	-	1.40		
		LUB105M-150C	0.10	-	1.05		
Dimming Range			0	-	10	V	
	High Level		9.7	-	10.3	V	
PWM	Low Level	Default 0-10V / PWM Dimming	0	-	0.3	V	
	Frequency Range		200	-	2,000	Hz	
	Duty Cycle		1	-	99	%	

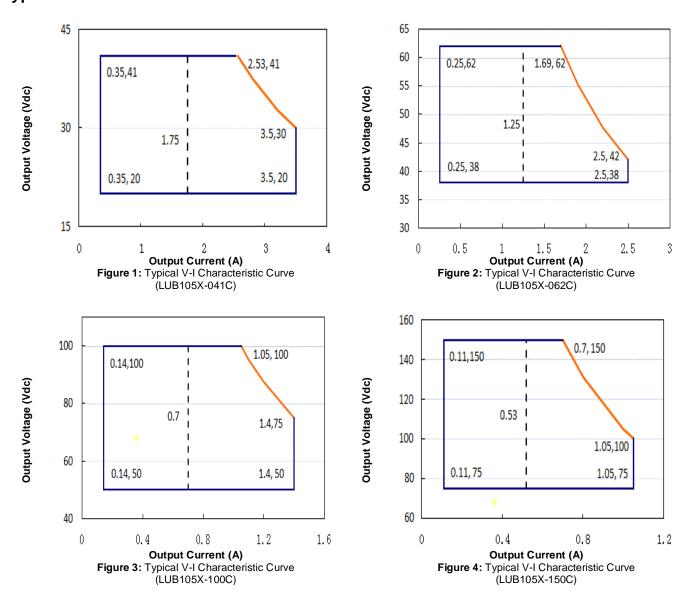
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EMC Specifications

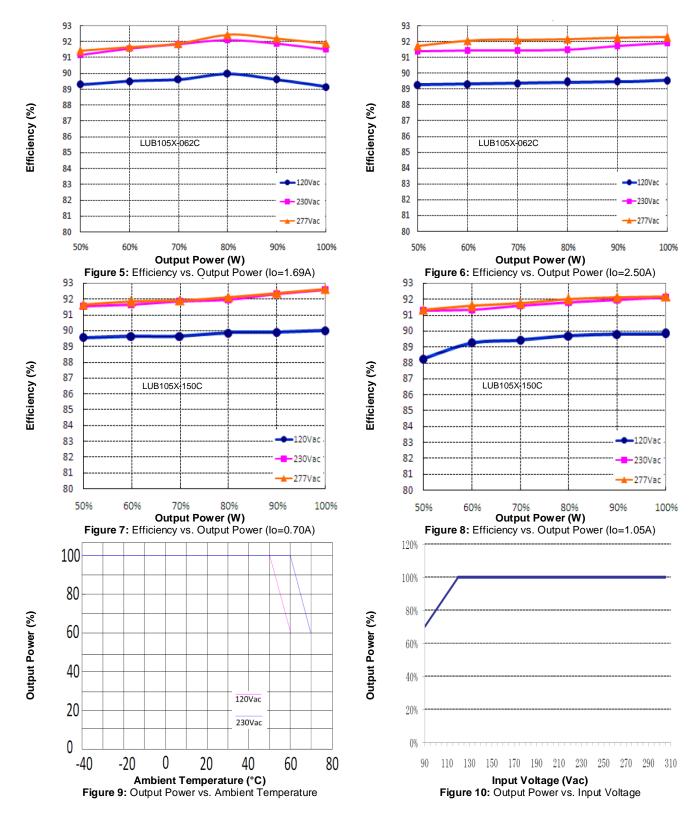
Parameter	Standards
EMI	EN55015
EWI	EN61000-3-2,3
EMS	EN61547
EIVIS	EN61000-4-2,3,4,5,6, 11

Typical V-I Characteristic Curves



Note: X=V is suitable for the right area of dotted line, X=M is suitable for the solid line contained area.

Characteristic Curves



←120Vac

-230Vac

<u></u>277Vac

90%

100%

Leading the Advancement of Power Conversion

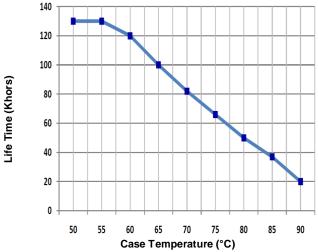
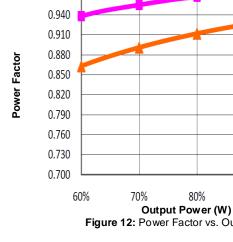


Figure 11: Life Time vs. Case Temperature



Output Current (%)

1.000 0.970

Figure 12: Power Factor vs. Output Power

80%

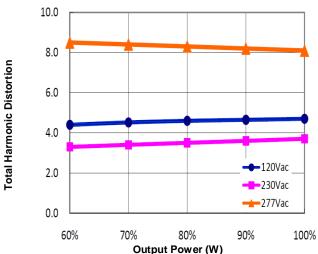
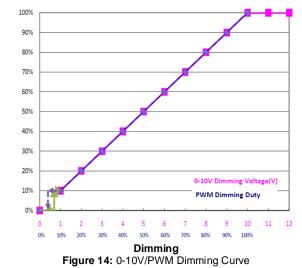
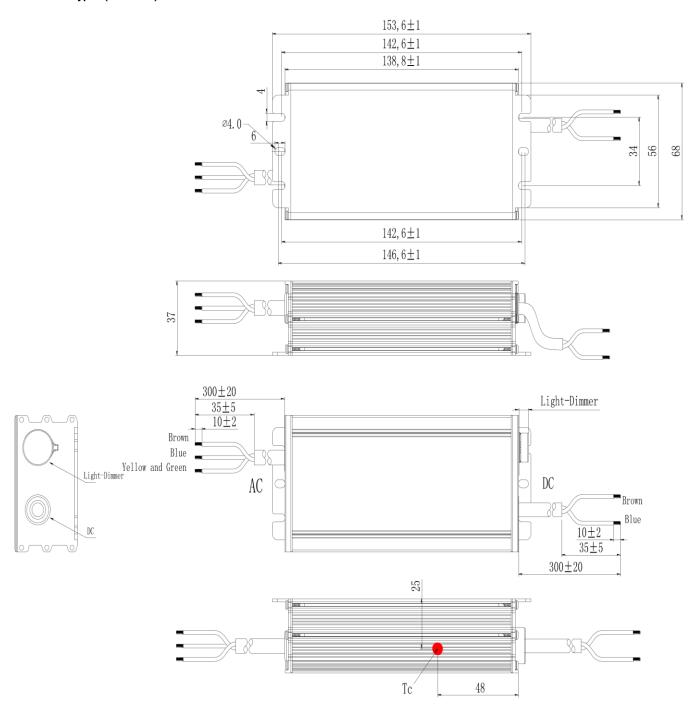


Figure 13: Total Harmonic Distortion vs. Output Power

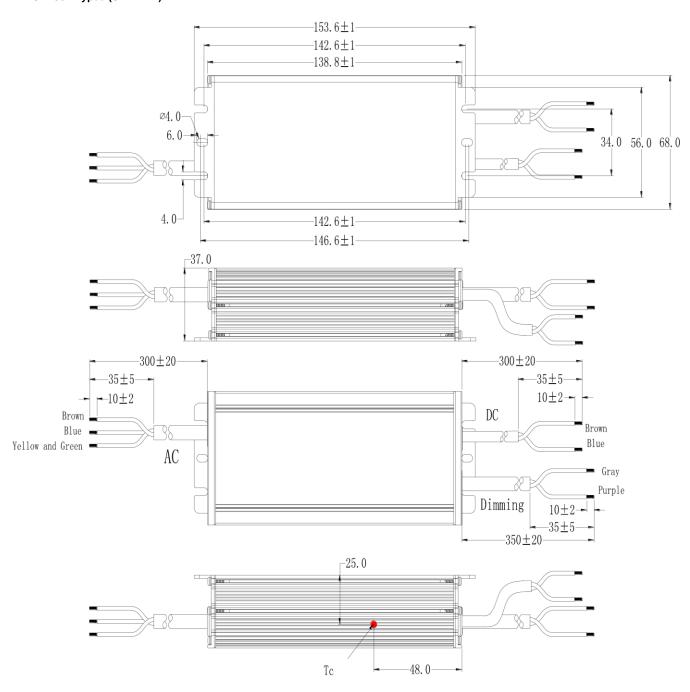


Mechanical Drawing

LUB105V types (Unit: mm)



LUB105M types (Unit: mm)



Wire	Specification
Input	SJOW 17AWG*3C, 8.3mm external diameter
Output	SJOW 17AWG*2C, 7.7mm external diameter
Dimming (M types)	UL2733 22AWG*2C, 5.45mm external diameter

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