



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
LUB240X-041C		20-41	32-41	5.86-7.50	6.70	92%
LUB240X-062C	240	38-62	42-62	3.88-5.71	5.00	92%
LUB240X-343C		171-343	228-343	0.70-1.05	0.70	93.5%

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	-	-	3.3	А	
	115Vac input, full load 0.97		0.99	-		
Power Factor	230Vac input, full load	0.95	0.95 0.97 -		-	
	277Vac input, full load	0.92	0.95	-	1	
Inrush Current	230Vac input, full load, cold start	-	-	75	А	
Leakage Current	277Vac input, 60Hz	-	-	0.7	mA	
Standby Power Consumption	M types	-	-	2	W	
THD	100-240Vac input, 50-100% of full load	-	5	10	0/	
עחו	277Vac input, 70-100% of full load	-	-	15	%	



Output Specifications

Parameter	Notes & Conditions	Min	Typical	Max	Unit
Output Current Tolerance	Full load	-5	-	+5	%lset
Output Current Set Point Range LUB240M-041C LUB240M-062C LUB240M-343C		0.75 0.57 0.11	- - -	7.50 5.71 1.05	A
Output Current Set Point Range LUB240V-041C LUB240V-062C LUB240V-343C		3.75 2.85 0.53	- -	7.50 5.71 1.05	A
Output Current Set Point Range LUB240X-041C LUB240X-062C LUB240X-343C	Constant power	5.86 3.88 0.70	- -	7.50 5.71 1.05	A
Total Output Current Ripple	230Vac input, full LED load, peak-peak	-	5	10	%
Startup Overshoot Current	100-277Vac input, full LED load	-	-	10	%lset
Output Voltage LUB240X-041C LUB240X-062C LUB240X-343C	No load		- - -	50 70 360	V
Line Regulation	100-277Vac input	-1	-	+1	%
Load Regulation	220V/co.input 60.100% of full load		-	+3	%
Turn on Dalar	115Vac input, full load	-	1	2	s
Turn-on Delay	230Vac input, full load	-	-	0.5	
Efficiency LUB240X-041C lo = 5.86A lo = 7.50A LUB240X-062C lo = 3.88A lo = 5.71A LUB240X-343C lo = 0.70A lo = 1.05A	115Vac input, full load	88 88 88 88 88 89 89	90 90 90 90 91 91		%
Efficiency LUB240X-041C Io = 5.86A Io = 7.50A LUB240X-062C Io = 3.88A Io = 5.71A LUB240X-343C Io = 0.70A Io = 1.05A	230Vac input, full load	90 90 91 91 91.5 91.5	92 92 92 92 93.5 93.5	- - - - -	%
Efficiency LUB240X-041C lo = 5.86A lo = 7.50A LUB240X-062C lo = 3.88A lo = 5.71A LUB240X-343C lo = 0.70A	277Vac input, full load	90.5 90.5 92 92 92	92.5 92.5 93 93 94		%
IO = 1.05A		92	94	-	

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 &	Notes & Conditions		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, 6	230Vac,full load, 60°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)		208.6		mm		•
Weight						

Dimming Specifications

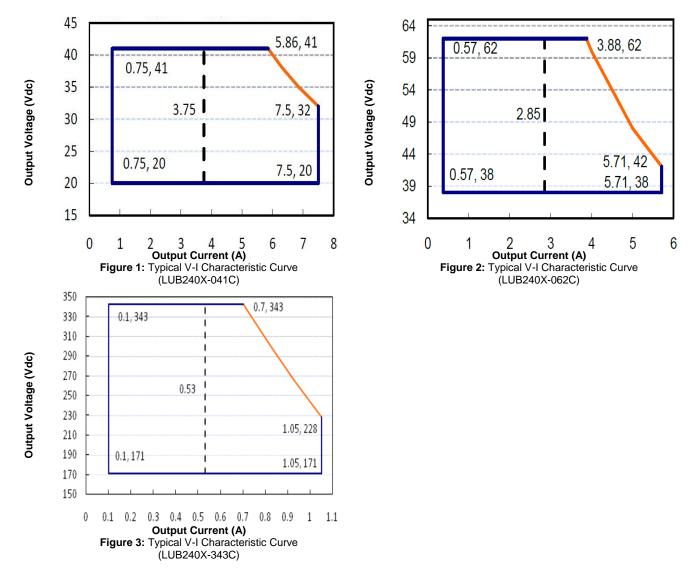
Parameter		Notes & Conditions	Min	Typical	Мах	Unit
Absolute Maximum Voltage		0-10V on the DIM +	-	10	-	V
Source Currer	nt	0-10V on the DIM +	-	0.2	0.4	mA
		LUB240M-041C	0.75	-	7.50	
Dimming Outp	out Range	LUB240M-062C	0.57	-	5.71	А
		LUB240M-343C	0.10	-	1.05	
Dimming Range			0	-	10	V
High Level			9.7	-	10.3	V
PWM	Low Level	- Default 0-10V / PWM Dimming	0	-	0.3	V
	Frequency Range		300	-	2,000	Hz
	Duty Cycle		1	-	99	%

EMC Specifications

Parameter	Standards
EMI	EN55015
EIVII	EN61000-3-2,3
ENG.	EN61547
EMS	EN61000-4-2,3,4,5,6, 11
	www.netpowercorp.com



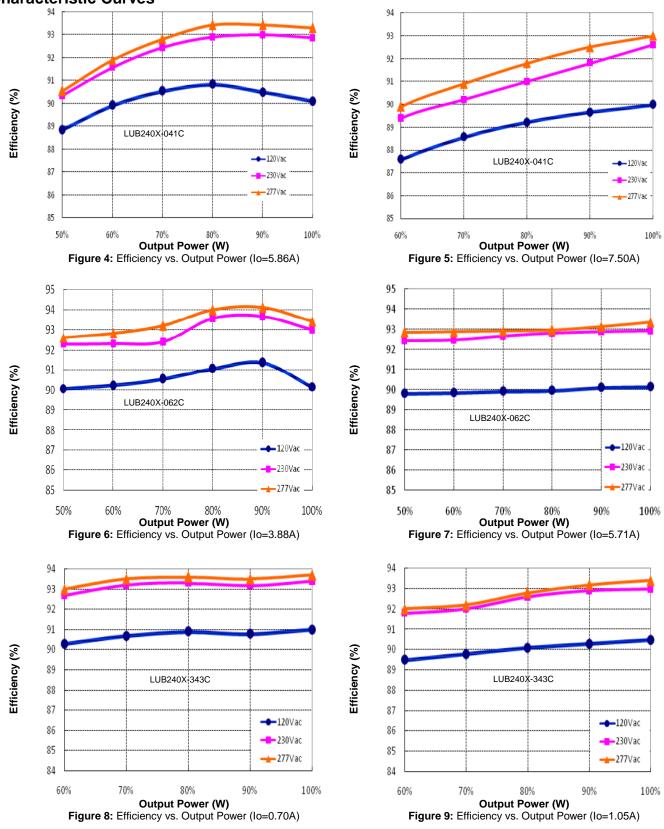
Typical V-I Characteristic Curves



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



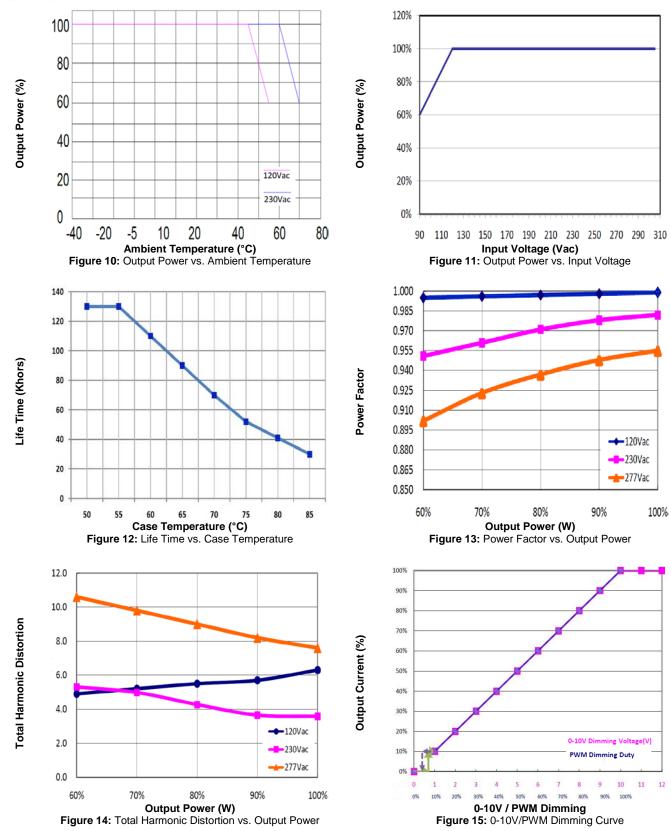
Characteristic Curves







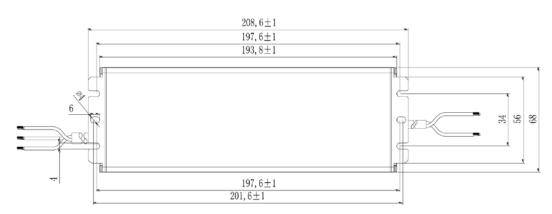
Leading the Advancement of Power Conversion





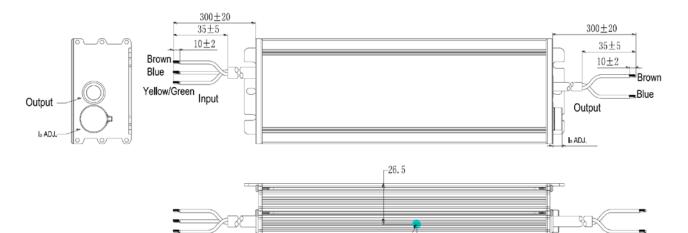
Mechanical Drawing

LUB240V types (Unit: mm)





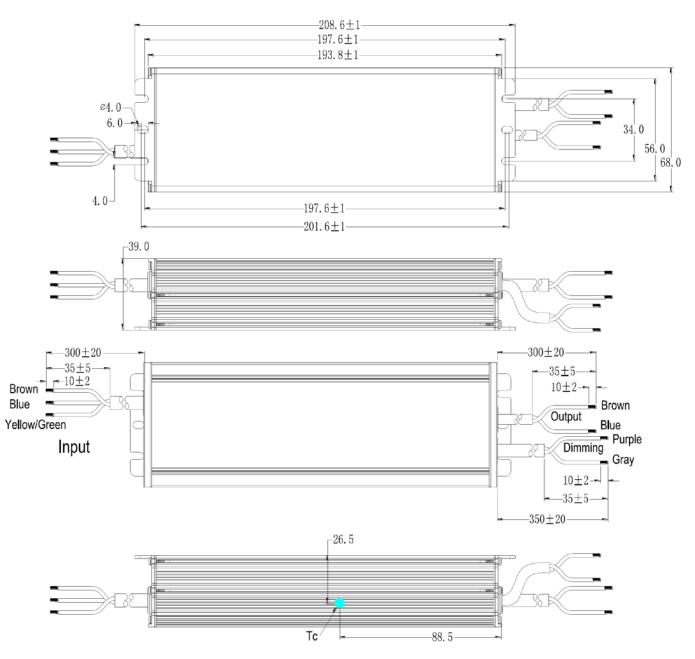
Tc/



88.5



LUB240M 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, 5.45 external diameter