

120W Outdoor LED Drives LCU-120DXXX Series

Features

- ♦ Universal voltage input
- \diamond using optimized control IC
- ♦ Perfect protection on SCP, OTP, OVP
- ♦ Dimming control for 0-10V, PWM and external resistor
- \diamond Low power loss ((less than 0.75W in noload condition))
- ♦ UL Type HL and Type TL certification
- ♦ Unique circuit design to increase reliability (2 patents pending)

♦ Waterproof (IP67) for damp or wet location



*Application: LED Outdoor lighting LED Flood lamp LED High Bay LED Street lamp



LCU-120D035 0 400 0

.LCU: Pr	oduct line	2.120:0	utput pow	ver 120w	3.035:O	utput Cur	rent 350	ma							
		Models													
	Items	LCU- 120D035	LCU- 120D045	LCU- 120D070	LCU- 120D105	LCU- 120D140	LCU- 120D175	LCU- 120D210	LCU- 120D245	LCU- 120D280	LCU- 120D315	LCU- 120D350	LCU- 120D420	LCU- 120D49 0	
Output	Max. Output Power	120W	120W	120W	120W	120W	120W	120W	120W	120W	120W	120W	120W	120W	
	Output Current	350mA	450mA	700mA	1050mA	1400mA	1750mA	2100mA	2450mA	2800mA	3150mA	3500mA	4200mA	4900m/	
	Output Current Tolerance	±5%													
	Output Voltage Range	206~343	160~266	103~171	68~114	52~86	41~68	34~57	29~49	26~43	23~38	20~34	17~28	14~24	
	Output Current Ripple	<10% lo; pk - pk, at full load condition													
	Max. Output Noise	500 mVp-p	400 mVp-p	400 mVp-p	350 mVp-p	350 mVp-p	300 mVp-p								
	Input Voltage Range	90Vac ~ 305Vac													
	Input Frequency Range	47 ~ 63Hz													
	Power Factor (Typical)	0.99 at 120Vac; 0.93 at 277Vac													
Input	THD	≤10%													
	Efficiency		93.5% 93.0%						92.0%			91.5%			

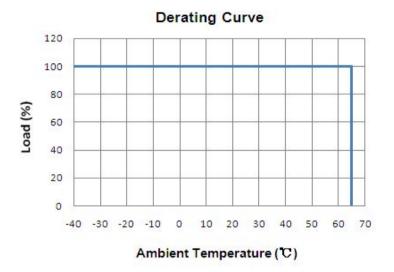




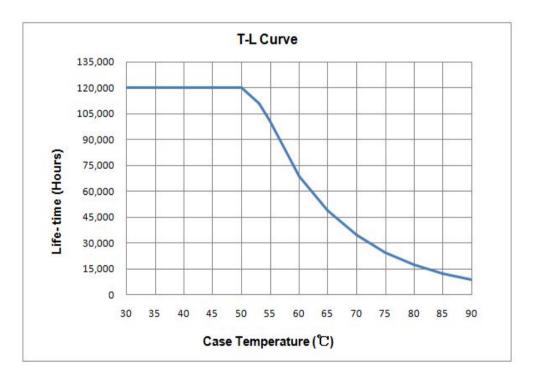
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	Inrush Current	Max. 75A at 220Vac input, duration 1.7ms, 10% lpk to 10% lpk.							
	Inrush Current (I ² t)	Max $2 E^{4}$ at 220 /as insult dynation 4 7ms 400 / lak to 440 / lak							
	Leakage Current	Max. 1mA							
	Short Circuit Protection	Yes							
Protection	Over Temperature Protection	Yes							
	Over Voltage Protection	110% Vout							
	Operation Ambient Temperature	-40° C ~ 65 $^{\circ}$ C According to the Derating Curve							
Environme nt	Working Humidity	10% RH to 100%RH							
	Storage Temp,Humidi ty	-40°C-+85°C, 5% RH to 100% RH							
	Withstand voltage	I/P-O/P:3.75KVac I/P-FG:1.88KVac O/P-FG:0.5KVac							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100MΩ/500Vdc/25℃/70%RH							
Safety & EMC	Surge Immunity	AC power: line to line 4kV, line to earth 6kV							
	EMI	Comply with FCC Part 18 class B, EN55015, EN61000-3-2, EN61000-3-3							
	Max. Case Temperature	90°C							
Other	No Load Power Dissipation	1W							
	Dimensions (L x W x H)	224*67.5*38 mm							
	1. Efficiency is measured at 277Vac input , rated load and 25 $^\circ\!\mathrm{C}$ of ambient temperature.								
Notes	2. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf ceramic capacitor and a								
	47uf elec.capacitor in parallel.								
	3. 5 Years Warranty								



Derating Curve



Case Temperature vs. Life time



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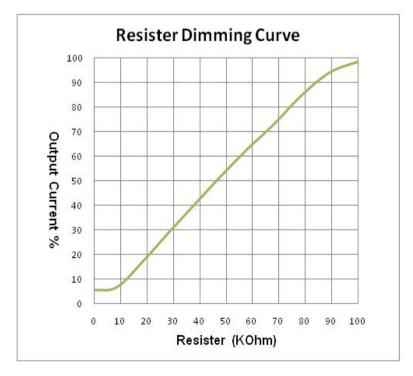


Dimming operation

※Built-in 3 in 1 dimming function, IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistance or 1 ~ 10Vdc or 10V PWM signal between DIM+ and DIM-.
※Please DO NOT connect "DIM-" to "-V".

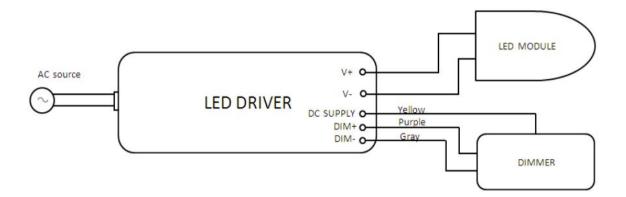
Dimming Curve

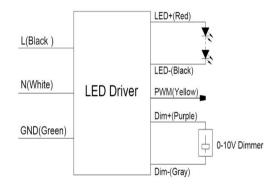






Wiring Diagram









Mechanical Specification:

