

Main Features:



- Input Voltage: 90~305Vac or 127~250Vdc
- Output Wattage: Constant Wattage (C.P.) at **320W** with Adjustable Current Setting
- Programmable Method: Wire or Wireless
- High Efficiency: Up to **90%**
- Dimming Function: 0-10V, Dim to off (dto) with 0.5w standby
- Auxiliaire Voltage : **12Vaux** with **300mA**
- Lightning Protection: Built-in Surge Protector at 10KV/5KA
- Reliability Protection: OVP, SCP, OTP
- Safety Regulation: Complies with UL8750 & EN61347
- **Type TL and HL** Program Certified from UL
- **Class P** UL standard for retrofit kit
- Waterproof Rating: IP67
- **Seven Year** Warranty under Normal Usage Conditions



SPECIFICATION

Model No. ⁽ⁱ⁾	Output Voltage Range	Programmable Output Constant Current Range	OVP	OTP	Case Temperature
	(Vdc)	(mA) ⁽ⁱ⁾	(Vdc max.)	(°C) ⁽ⁱⁱ⁾	(Tc)
LDDC320D305P1050-U-V	182 – 421	760 - 1050	120% Vo _{max} , typ.	Tc ≥ 105 ± 10°C	75C
LDDC320D229P1400-U-V	137 – 305	1050 - 1400	120% Vo _{max} , typ.	Tc ≥ 105 ± 10°C	75C
LDDC320D152P2100-U-V	91 – 229	1400 - 2100	120% Vo _{max} , typ.	Tc ≥ 105 ± 10°C	75C
LDDC320D046P7000-U-V	27-64	5000 - 7000	120% Vo _{max} , typ.	Tc ≥ 105 ± 10°C	75C
Note	(i) Pre-set Constant Current Value with dimming				
	(ii) Lower the output current when Tc ≥ 105 ± 10°C; Auto Recovery When Tc ≤ 70 ± 10°C				

Input Spec.	Condition Description	Min.	Normal	Max.	Units
Input Voltage Range	Universal Input	90	100-277	305	VAC
Input Frequency Range		47	50/60	63	Hz
Input Current	110 VAC/220 VAC input, full load output			2.9/1.5	A
Power Factor	At 100 VAC/220 VAC input		>0.9		
Inrush Current	At 230 VAC input, 25°C cold start / At 277 VAC input, 25°C cold start			65 / 70	A
Leakage Current	max @277Vac 60Hz			1.0	mA
Surge Protection	Line to line 4kV, line to ground 10kV, IEC 61000-4-5				

Output Spec.	Condition Description	Min.	Normal	Max.	Units
Current Accuracy			±5		%
Ripple Current	At 100%-60% Load. The result differs according to different LED load characteristic.			5	% Ip-p (Io)
Overshoot/Undershoot	% of Iout max & LED load			10	%
Turn-On Delay	Measured at 110 VAC/220 VAC input and Full Load			1.2	s
Auxiliary Power (Vaux)	With 300mA max	-5%	12	+5%	Vdc

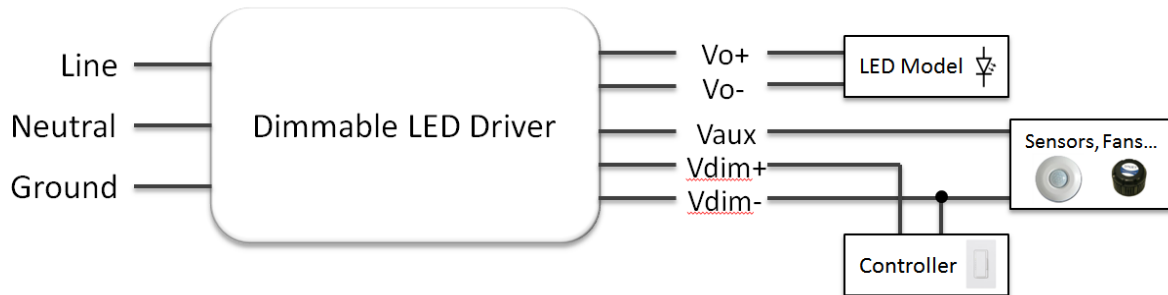
General Spec.	Condition Description	Min.	Normal	Max.	Units
Efficiency	Measured at full load and 220Vac in the thermal balanced condition.		92	93	%
MTBF	measured at Tc= 75°C (MIL-HDBK-217F)		≥280,000		Hours
Lifetime	measured at Tc= 75°C		≥100,000		Hours
Operating/Storage Temperature	10%RH ~ 100%RH (See De-rating Curve for more details)	-40/-40		70/85	°C
Dimension (OL/L x W x H)	OL is the overall length with mounting plates	251/225 x 68 x 38.5			mm
		9.88/8.85 x 2.66 x 1.52			inch
Weight	Net weight without package	3.52/1.6			lb/kg

Safety & EMC Compliance	Category	Condition Description
Safety Regulations	UL8750	Light Emitting Diode(LED) Equipment for Use in Lighting Products
	UL1012	Power Unit Other Than Class 2
	IEC 61347-1	Lamp Controlgear Part 1: General and Safety Requirements
	IEC 61347-2-13	Lamp Controlgear Part 2-13: Particular Requirement for d.c. or a.c. Supplied Electronic Controlgear for LED Modules
	CE	Europe: EN 61347-1, EN61347-2-13
EMI Standards	IEC 55015	Conducted emission test & Radiated emission test
	IEC 61000-3-2	Harmonic current emissions; Class C (≥75% load)
	IEC 61000-3-3	Voltage fluctuations & flicker
	FCC Part 15	Class B
EMS Standards	IEC 61000-4-2	Electrostatic discharge (ESD)
	IEC 61000-4-3	Radio frequency electromagnetic field susceptibility test (RS)
	IEC 61000-4-4	Electrical fast transient (EFT)
	IEC 61000-4-5	Surge immunity test L-N:2kV; LN-PE:4kV (External Surge Protection Device 4K/6K or 6K/10K)
	IEC 61000-4-6	Conducted radio frequency disturbances test (CS)
	IEC 61000-4-8	Power frequency magnetic field test
	IEC 61000-4-11	Voltage dips
	IEC 61547	Electromagnetic immunity requirements applies to lighting equipment

■ Dimming Curve

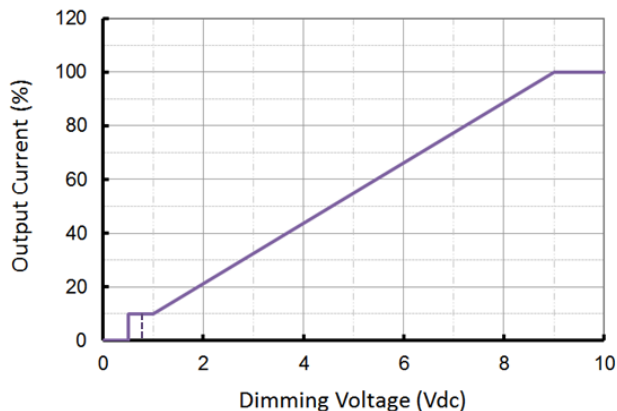
Parameter	Min.	Typ.	Max.
Vdim Sourcing Current	200uA	300uA	450uA
Vdim Allowed Input Voltage	-20 V		20 V
0-10V Dimming Range	10% (Vdim=1V)	Linear	100% (Vdim=9~10V)
PWM Dimming Range	10% (Duty=10%)	Linear	100% (Duty=90-100%)
Dim off threshold		0.5V or 5%	0.6V or 6%
Dim on threshold	0.6V or 6%	0.7V or 7%	
PWM High	3V		10V
PWM Low	0V		0.6V
PWM Frequency	300Hz		2kHz
External PWM Controller Current Sinking Capability	300uA		

Dimming Wire

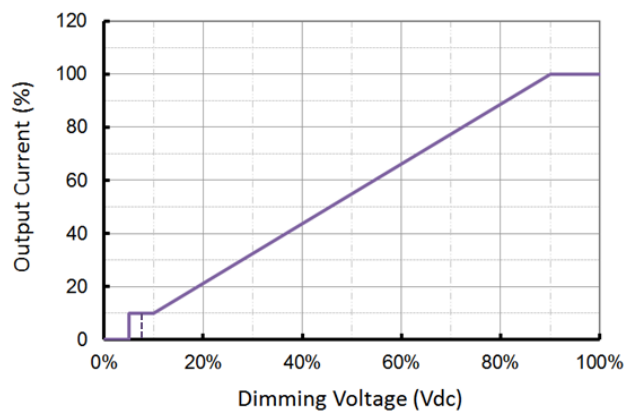


With dim-off (dto)

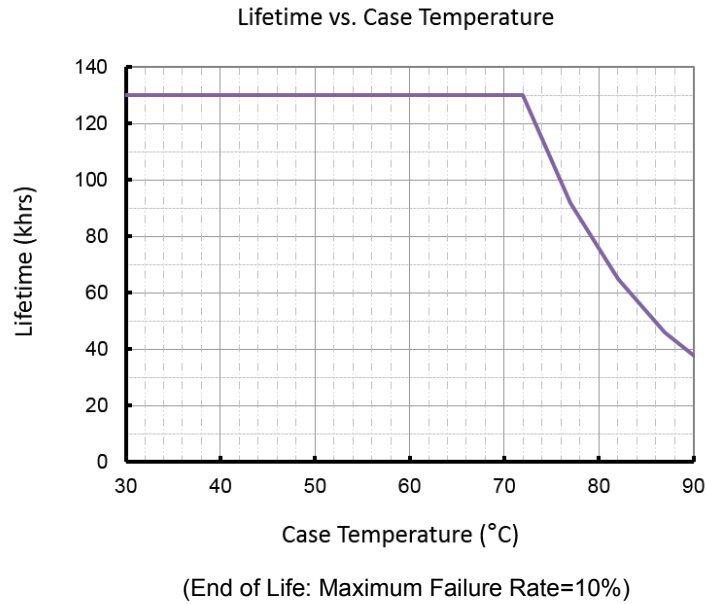
0-10V Dimming Curve



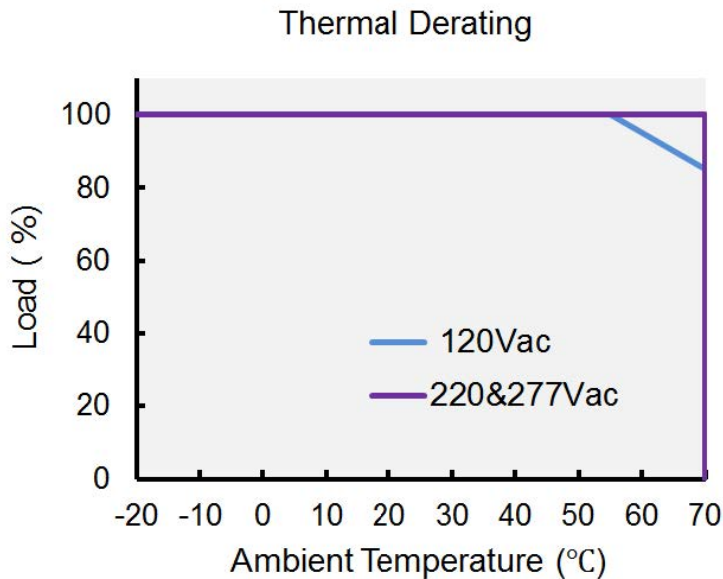
PWM Dimming Curve



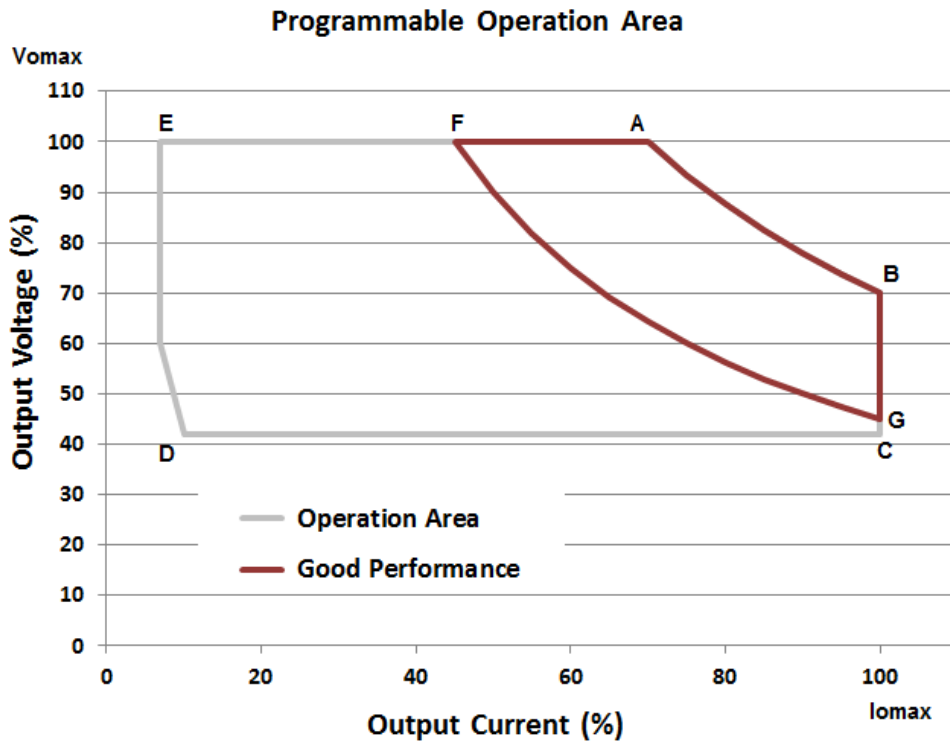
■ **Lifetime vs. Case Temperature**



■ **De-rating Curve**



■ Current vs. Voltage Curve



I_o (mA) V_o (V)	B I _{max}	A V _{max}	F (60% of I at A) (as V _{max})	G (as I _{max}) (60% of V at B)	C (as I _{max}) V _{min} = (60% of V at B)	D (10% of I _{max}) (60% of V at B)	E (10% of I at A) (as V _{max})
LDDC320D305P1050-U-V	1050 305	760 421	630 421	1050 183	1050 183	105 183	76 421
LDDC320D229P1400-U-V	1400 229	1050 305	630 305	1400 137	1400 137	140 137	105 305
LDDC320D152P2100-U-V	2100 152	1400 229	840 229	2100 91	2100 91	210 91	140 229
LDDC320D046P7000-U-V	7000 46	5000 64	3000 64	7000 28	7000 28	700 28	500 64
On BA Curve Line	Constant Power Area						
Within BAFG Box	Good Performance Area						
Within ABCDE Box	Operational Area						

■ Mechanical Outline (Unit: mm)

Note: Dimensions in millimeters, where 25.4 mm = 1 inch

Tolerance: ± 0.51 mm

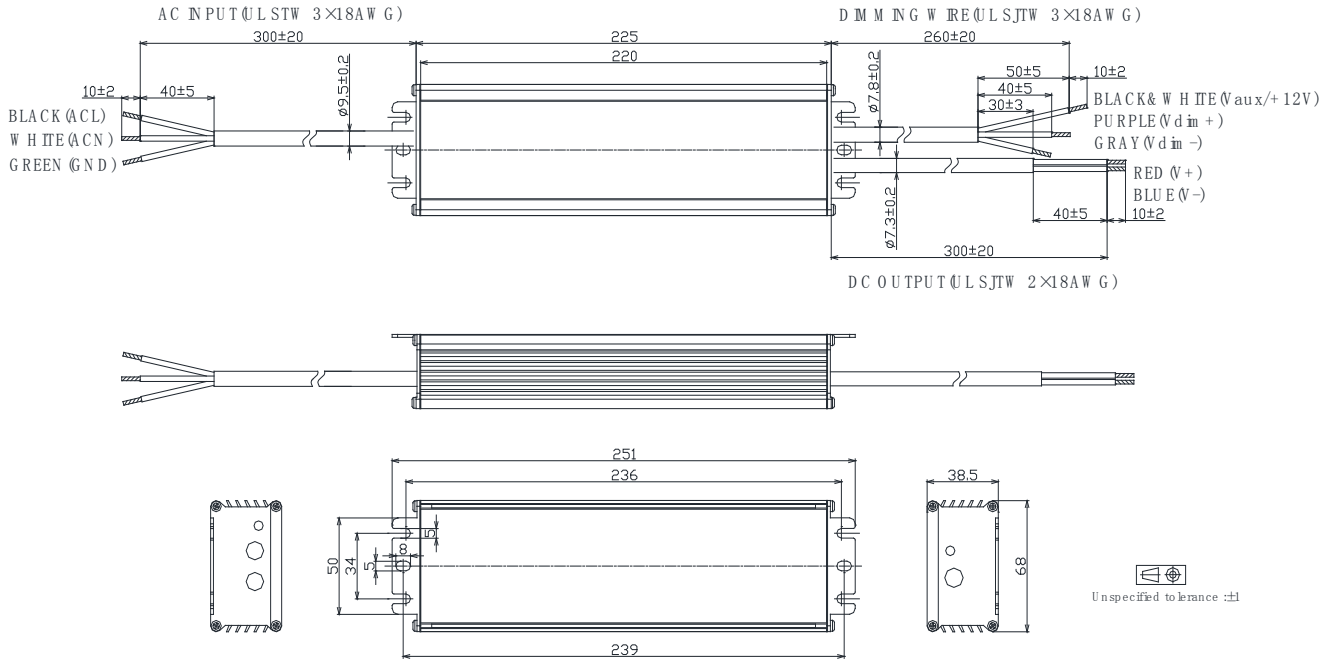


Fig. ARXPT

Safety Note: Please make sure the output cable does not connect to dimming cable or the cables of other drivers until 20 seconds after being tested because of the remained voltage in the output capacitor.

Revision

Date	Rev.	Description of Change		
		Item	Old	New
5/2/2018	V2a	In Draft Release	/	/