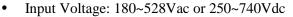


LED Driver C.C. 320W with High Input Voltage Series

Main Features:



Output Wattage: Constant Current (without "P")

or Constant Wattage (C.P.) at 320W

with Adjustable Current Setting

Programmable Method: Wire or Wireless

High Efficiency: Up to 90%

Dimming Function: 0-10V/PWM

Auxiliary 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

Five Year Warranty under Normal Usage Conditions









SPECIFICATION

	Output Voltage	Programmable Output	OVP	ОТР	Case Temperature				
Model No. ⁽ⁱ⁾	Range	Constant Current Range							
	(Vdc)	(mA) ⁽ⁱ⁾	(Vdc max.)	(°C) ⁽ⁱⁱ⁾	(Tc)				
LDD-320D229-1400HH-V	n/a	-	120% Vomax, typ.	Tc≧105±10°C	90C				
LDD-320D229P1400HH-V	137 - 305	1050 – 1400	120% Vomax, typ.	Tc≧105±10°C	90C				
LDD-320D152P2100HH-V	91 – 229	1400 - 2100	120% Vomax, typ.	Tc≧105±10°C	90C				
LDD-320D076P4200HH-V	46 – 114	2800 - 4200	120% Vomax, typ.	Tc≧105±10°C	90C				
Note	(i) Pre-set Constant Current Value with dimming								
	(ii) Lower the outp	(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	Dedicated High Voltage Input	180	208-480	528	VAC
Input Frequency Range		47		63	Hz
Input Current	277 VAC/480 VAC input, full load output			1.3/0.75	А
Power Factor	@60% - 100% load		>0.9		
THD (total harmonic	@C09/ 1009/ load		-15		0/
distortion)	@60% - 100% load		<15		70
Inrush Current	At 277 VAC input, 25°C cold start / At 480 VAC input, 25°C cold start			65 / 70	А
Leakage Current	max @277Vac 60Hz			1.0	mA



LED Driver C.C. 320W with High Input Voltage Series

Surge Protection	Line to line 6kV, line to ground 10kV, IEC 61000-4-5					1
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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	% lp-p (lo)
Overshoot/Undershoot	% of lout max & LED load			10	%
Turn-On Delay	Startup time at cold start			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 in the thermal balanced condition		92	93	%
MTBF	measured at Tc= 75°C (MIL-HDBK-217F)		≥280,000		Hours
Lifetime	measured at Tc= 75 ℃		≥100,000		Hours
Operating/Storage	100/DUL 1000/DUL/Cop Do retire Compositor de manage detaile	-40/-40		70/05	°C
Temperature	10%RH \sim 100%RH (See De-rating Curve for more details			70/85	C
Dimension		263/236*90*41.5			mm
(OL/L x W x H)	OL is the overall length with mounting plates	10.35/9.29*3.54*1.63			inch
Weight	Net weight without package		3.52/1.6		lb/kg

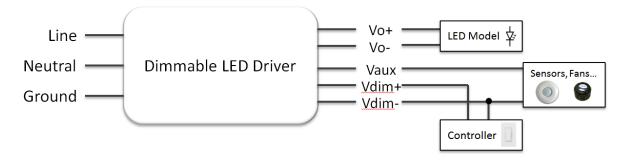
Safety & EMC Compliance	Category	Condition Description			
	UL8750	Light Emitting Diode(LED) Equipment for Use in Lighting Products			
	UL1012	Power Unit Other Than Class 2			
Cofety Degulations	IEC 61347-1	Lamp Controlgear Part 1: General and Safety Requirements			
Safety Regulations	IEC 61347-2-13	Lamp Controlgear Part 2-13: Particular Requirement for d.c. or a.c. Supplied Electronic Controlgear foe LED			
	IEC 61347-2-13	Modules			
	CE	Europe: EN 61347-1, EN61347-2-13			
	IEC 55015	Conducted emission test & Radiated emission test			
5541.61	IEC 61000-3-2	Harmonic current emissions; Class C (≥75% load)			
EMI Standards	IEC 61000-3-3	Voltage fluctuations & flicker			
	FCC Part 15	Class B			
	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)			
FNAC Chandauda	IEC 61000-4-5	Surge immunity test L-N:2kV; LN-PE:4kV (External Surge Protection Device 4K/6K or 6K/10K)			
EMS Standards	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			



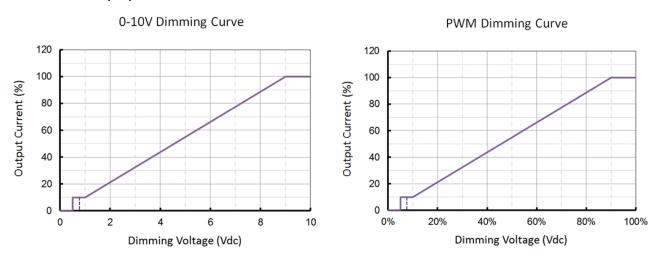
■ Dimming Curve

Parameter	Min.	Тур.	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

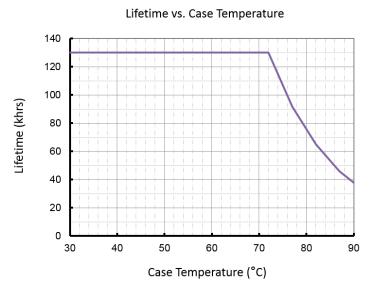


With dim-off (dto)



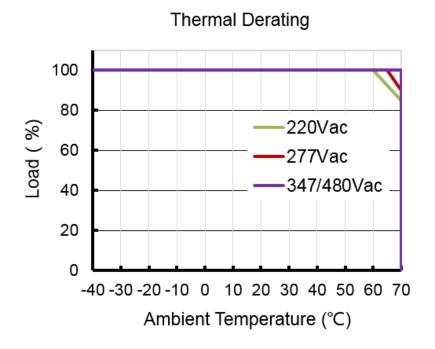


■ Lifetime vs. Case Temperature



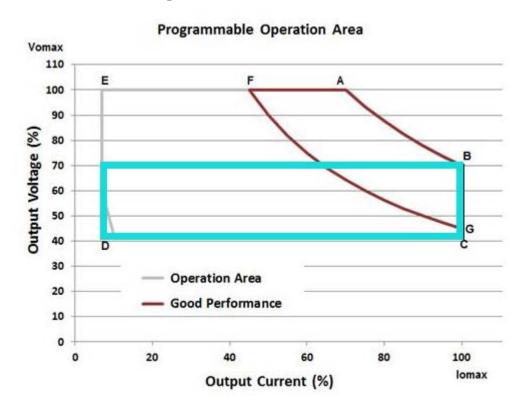
(End of Life: Maximum Failure Rate=10%)

■ De-rating Curve





■ Current vs. Voltage Curve



Io (mA) Vo (V)	В	Α	F	G	С	D	E
	Imax	Vmax	(60% of I at A)	(as Imax)	(as Imax) Vmin =	(10% of Imax)	(10% of I at A)
			(as V _{max})	(60% of V at B)	(60% of V at B)	(60% of V at B)	(as V _{max})
LDD-320D229-1400HH-V	1400 229	n/a	n/a	n/a	1400 137	140 137	140 229
Within BCDE Box	C.C.				Constant Current Area		
LDD-320D229P1400HH-V	1400 229	1050 305	630 305	1400 137	1400 137	140 137	105 305
LDD-320D152P2100HH-V	2100 152	1400 229	840 229	2100 91	2100 91	210 91	140 229
LDD-320D076P4200HH-V	4200 76	2800 114	1680 114	4200 46	4200 46	420 46	420 114
On BA Curve Line	Constant Power Area						
Within BAFG Box		Good Perfor	ormance Area				
Within ABCDE Box	Operational Area						

■ Mechanical Outline (Unit: mm)

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

Tolerance: ±0.51 mm

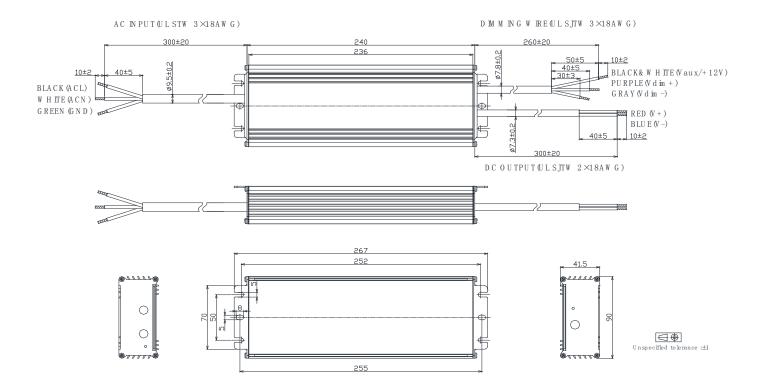


Figure 33, AR7PT

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.



LED Driver C.C. 320W with High Input Voltage Series

Revision

Dete	Davi		Description of Change					
Date Rev.		Item Old		New				
12/2/2016	V2a	In Draft Release	/	/				
12/7/2016	V2b	Update	De-rating Curve	Removed the high voltage marks				
		Add		THD (total harmonic distortion)				
		Modify	Measured at full load and 220Vac in the	Measured at full load in the thermal				
			thermal balanced condition	balanced condition				
5/18/2017		Curre Duetestien	Line to line 4kV, line to ground 10kV, IEC	Line to line 6kV, line to ground 10kV, IEC				
	Surge Protection		61000-4-5	61000-4-5				
		Update	Product image	On page 1				