

The logo for DONE, featuring the word "DONE" in a bold, teal, sans-serif font. The letter "D" is stylized with a white circular element on its left side. The logo is enclosed in a thin teal rounded rectangular border.

DONE

PXG SERIES LED DRIVERS

DL-320V-A/S/X-PXG SPEC V1.5

Features

- Class I structure
- Input voltage: 200-480V ~ 50/60Hz
- Efficiency :95% (Typ.)
- Constant current output control mode,with constant power limitation.
- Metal shell structure, protection grade: : IP42
- Lightning level: differential mode 6kV, Common mode 10kV
- Dim-off function available.(X version only)
- Function selection:
 - Output current is adjusted by external potentiometer (whole series)
 - Isolation dimming function: 3-in-1 dimming (0-10V, PWM, resistance) (X,S version)
 - Isolation Auxiliary Power supply (X version) :12VDC 300mA
- Lifetime design : 5 years



Applications

Road lighting、Industrial lighting、Venue lighting
 Floodlight lighting、Landscape lighting 、Plant lighting



Model list

Model NO.	Input voltage	Output power	Output voltage	The default current	Eff.	THD.	PF
DL-320V-260A-PXG	200-480V 50/60Hz	320W	180-260Vdc	1.3A	≥95%	≤10%	≥0.95
DL-320V-260S-PXG							
DL-320V-260X-PXG							

- Note :**
1. Test conditions of the above parameters: Ta=25°C, 380Vac input, full load operation for 30 minutes;
 2. When the input is in the range of 200-480VAC, output the rated power of 320W, please ensure that the input voltage is within the allowable range.

Please refer to "Input voltage VS Output power diagram" curve chart for details.

Input characteristics

Parameter	Min	Typ.	Max	Note
Rated input voltage	200Vac	380Vac	480Vac	-
Input voltage range	180Vac	-	528Vac	-
Rated frequency	47Hz	50/60Hz	63Hz	-
Power factor	-	0.97	-	@200~380Vac full load
	-	0.92	-	@480 full load
T.H.D.	-	-	10%	@200Vac/50Hz,380Vac/50Hz full load
	-	-	20%	@480Vac/50Hz 80%~100% load
Input current	-	-	2A	@200Vac full load
Inrush current	-	-	150A	@380Vac, cold start (25°C)

Output characteristic

Parameter	Min	Typ.	Max	Note
Rated current DL-320V-260A/S/X -PXG	-	1.23A	-	-
Output current range DL-320V-260A/S/X -PXG	0.92A	-	1.6A	-
Output voltage range DL-320V-260A/S/X -PXG	180V	-	260V	-
Constant power output voltage range	200V	-	260V	Maximum output power 320W
Constant current output voltage range	180V	-	260V	Maximum output current 1.6A
No-load voltage DL-320V-260A/S/X -PXG	-	-	350V	-
Efficiency@200Vac DL-320V-260A/S/X -PXG	-	92%	-	full load
Efficiency@380Vac DL-320V-260A/S/X -PXG	-	95%	-	full load
Ripple of output current	-	5%	-	full load
Accuracy of output current	-5%	-	+5%	full load
Line regulation	-3%	-	+3%	full load
Load regulation	-3%	-	+3%	full load
Starting time	100ms	-	1000ms	@200-480Vac full load

Note: The output current range is limited by the input and output Voltage, Please refers to "I-V WORKING AREA" for details;

Dimming Characteristic

Dimming function		Min	Typ.	Max	Instructions
0-10V Dimming (Optional)	Safe applied voltage range	0V	-	12V	Refer to note 2
	Rated dimming voltage range	0V	-	10V	-
	Dimming output range	0%	-	100%	-
	Turn-on voltage S version	0.6V		1.5V	
	X version	0.65V	0.8V	0.95V	
Turn-off voltage S version		0.3V		1V	
	X version	0.25V	0.4V	0.55V	
PWM Dimming (Optional)	PWM high level	9.5V	-	10.5V	-
	PWM low level	0V	-	0.3V	-
	PWM frequency band	300Hz	-	2000Hz	-
	PWM duty cycle	0%	-	100%	-
	Turn-on Duty Cycle		8%		
	Turn-Off Duty Cycle		4%		
Resistor Dimming (Optional)	External resistance value	0KΩ	-	100KΩ	-
	Dimming output range	0%	-	100%	-

Note:

1. Output current of dimming port: 100uA (typical value);
2. The maximum voltage applied to the dimming port is suggested below 12V, but it also is protected against wrong voltage that below 380VAC or 300VDC. Please don't keep the wrong voltage apply to the port for a long time. Otherwise, it is possible to be damaged.

Protection

Function	Function instructions
Under voltage protect	When the input voltage is less than 188±10VAC, the output power decreases to a half.
Output overload protection	Protection mode: hiccup mode, recovers automatically after fault condition is removed.
Output short circuit protection	Hiccup mode: recovers automatically after fault condition is removed.
Over temperature protection	Self-recovery type: when the housing temperature is greater than 95±5°C, the output power decreases gradually.
Output over-voltage protection	Protection mode: Hiccup mode or clamped in output highest voltage , the product is not damaged , LED driver works normally after fault condition is removed.
Surge protection	Differential L/N ± 6 KV (2Ω), Common L/N-PE±10 KV (12Ω); residual voltage≤3100V

Note: Unless otherwise specified, all specifications and parameters shall be measured at the conditions of 380Vac (50Hz), rated load and 25°C of ambient temperature;

Environmental

Environmental categories	Parameter
Working temperature	-40 ~ +40°C @200-300Vac, -40 ~ +55°C @300-480Vac(refer to "Life Curve ")
Max.Case Temp.	-40 ~ 90°C
Working humidity	20 ~ 95% RH, non-condensing
Storage temperature, humidity	-40~+80°C, 10 ~ 95% RH
Resistant to vibration	10 ~ 500Hz, 5G 12 min/cycle, X, Y, Z axis 72 min each
MTBF	100Khrs min. MIL-HDBK-217F (Ta=25°C)
Lifetime	70000H@Tcase≤75°C,(Please refer to Lifetime VS Tcase curve for details)

Safety

Safety Categories	Area	Standards	Approved
CCC	China	GB 19510.1, GB 19510.14	
CE	Europe	EN 61347-1, EN 61347-2-13	√
ENEC		EN 62384	
CB	CB member state	IEC 61347-1, IEC 61347-2-13	√
SAA	Australia	AS/NZS 61347.1, AS/NZS 61347.2.13	
UL	USA	UL 8750	√
CUL	Canada	CSA C22.2 No.250.13	√
EAC	Russia	ГОСТ IEC 61347-1-2019 ГОСТ IEC 61347-2-13-2013	
BIS	India	IS 15885(PART 2/SEC 13)	

EMC

EMI/EMS Categories	Area	Standards	Approved
CCC	China	GB/T 17743, GB 17625.1	
CE	Europe	EN IEC 55015 EN 61547 EN IEC 61000-3-2;3-3;4-5	√
EAC	Russia	ГОСТ IEC 61547-2013 ГОСТ CISPR 15-2014 ГОСТ IEC 6100-3-2-2017 ГОСТ IEC 6100-3-3-2015	
FCC	USA	FCC Part 15 Subpart B	√

RoHS

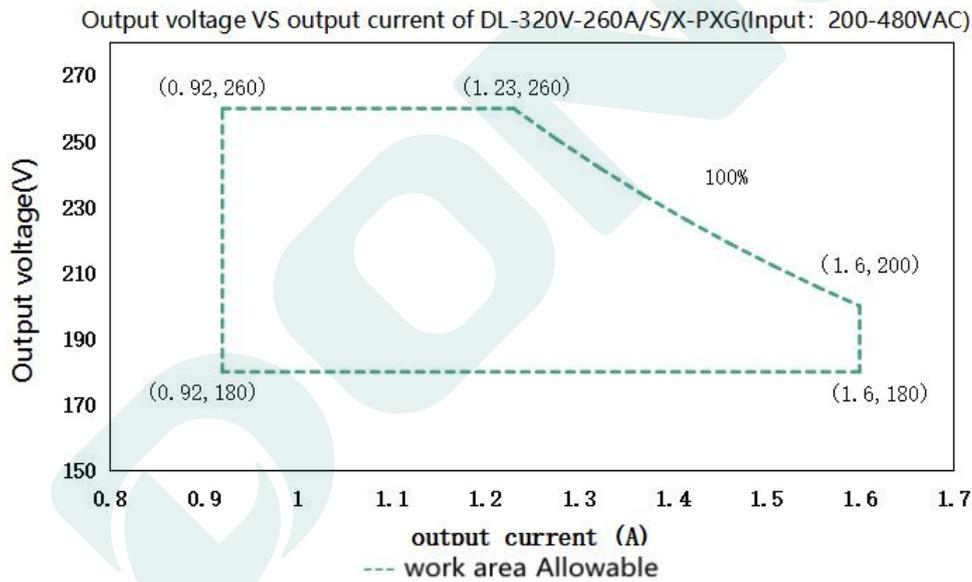
Our products comply with reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Safety Test Items:

Safety Test Item	UL	CE/CB/ENEC	CCC	Insulation Requirements
Input-Case/Ground	1960Vac	1960Vac	-	Basic insulation, 1min< 5mA
Input-Dim	1960Vac	1960Vac	-	Reinforced insulation, 1min< 5mA
Output-Case/Ground	1960Vac	1960Vac	-	Basic insulation, 1min< 5mA
Dim-Case	500Vac	500Vac	-	
Insulation Resistance	≥10MΩ			Input-Dim, Test voltage:500Vdc
Ground Resistance	≤0.1Ω			25A/1min; Ta=25°C±10°C

Note: The driver is considered as a component that will be operated in combination with the final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

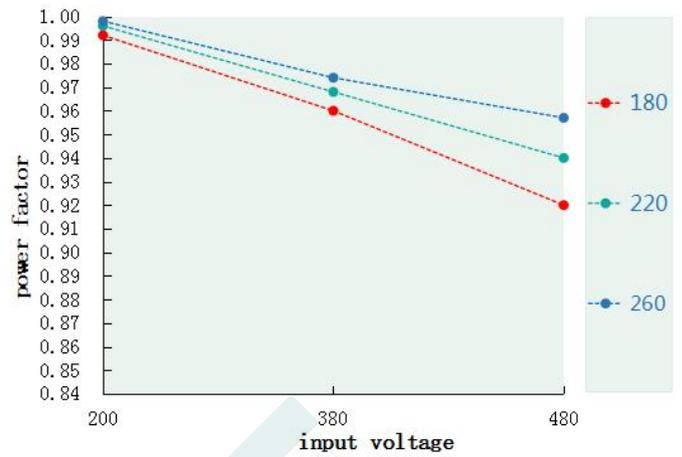
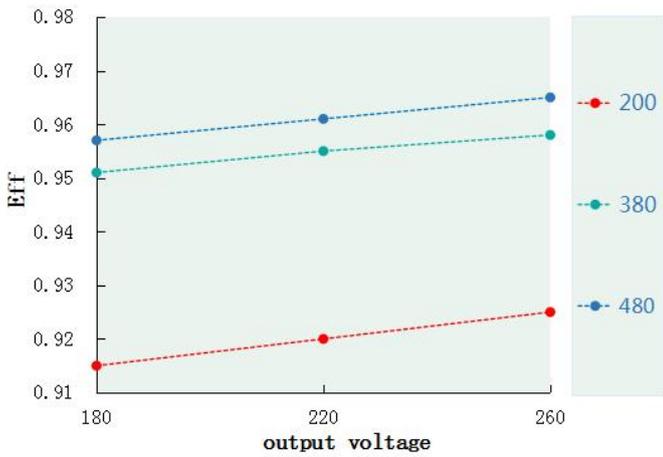
I-V Working area



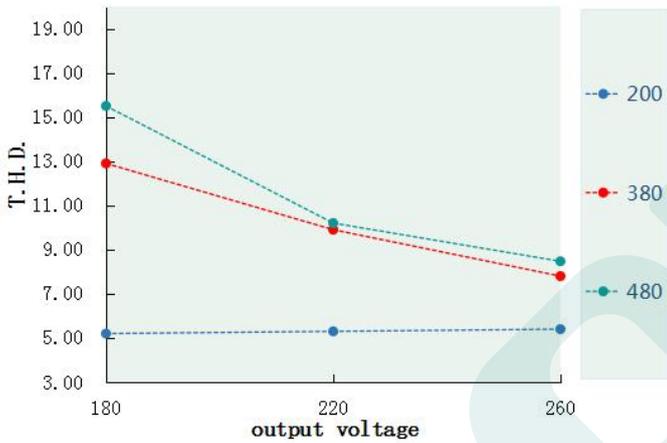
Load	Output								
Load working Voltage	180V	190V	200V	210V	220V	230V	240V	250V	260V
Io_ MAX	1.6A	1.6A	1.6A	1.52A	1.45A	1.39A	1.33A	1.28A	1.23A
Po_ MAX	288W	304W	320W	320W	320W	320W	320W	320W	320W

Eff. VS Output voltage (DL-320V-260A/S/X -PXG)

Power Factor VS Input Voltage (DL-320V-260A/S/X -PXG)



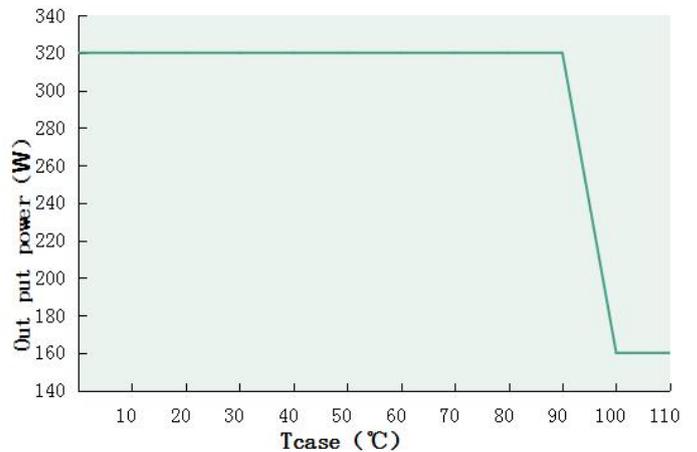
T.H.D. VS Output voltage (DL-320V-260A/S/X -PXG)



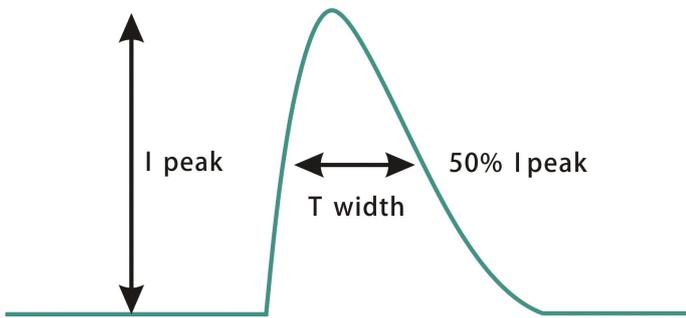
Lifetime VS Tcase (DL-320V-260A/S/X -PXG)



Output power VS Tcase (DL-320V-260A/S/X -PXG)

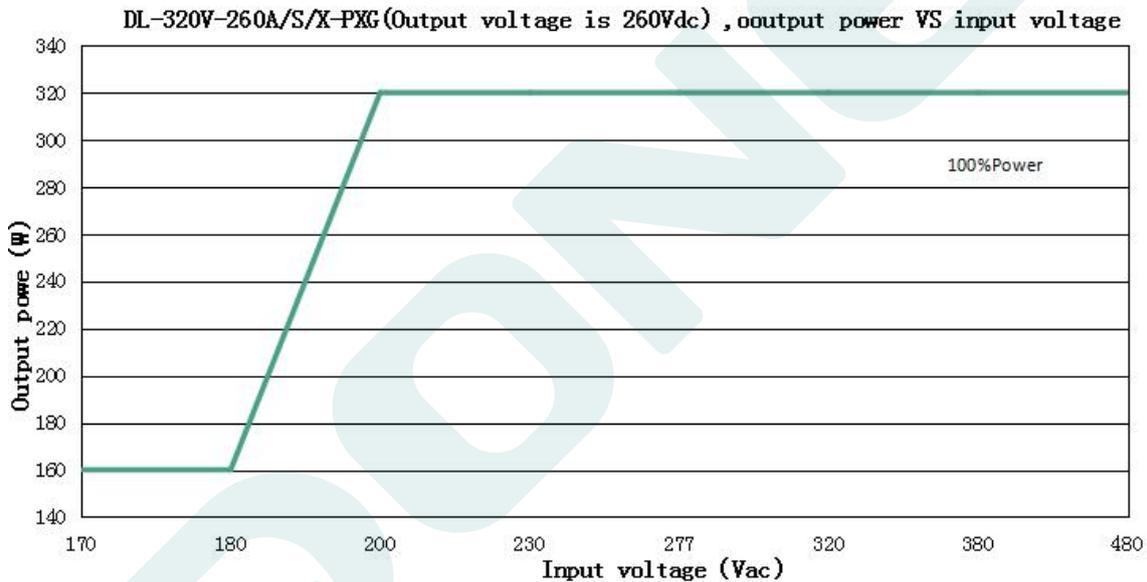


Inrush Current (DL-320V-260A/S/X -PXG)



Input voltage	Peak current	T(@50% Peak current)
200Vac	83.5A	2.4us
380Vac	111.8A	2.3us
480Vac	130A	2.5us

Output power VS Input voltage



DL-320V-260A/S/X-PXG(When the output voltage is 260Vdc, the rated output current value and output power corresponding to different input voltage)

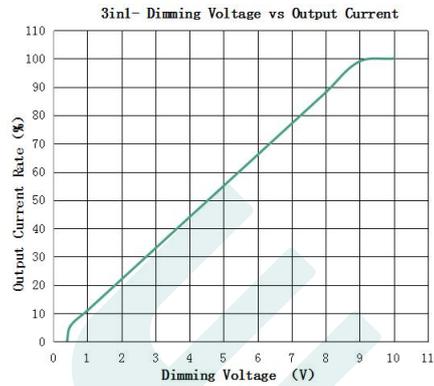
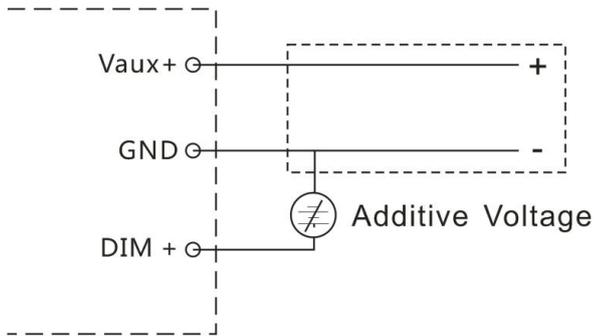
Input Voltage	170Vac	180Vac	200Vac	230Vac	277Vac	320Vac	380Vac	480Vac
Iout	0.615A	0.615A	1.23A	1.23A	1.23A	1.23A	1.23A	1.23A
Pout	160W	160W	320W	320W	320W	320W	320W	320W

Dimming operation

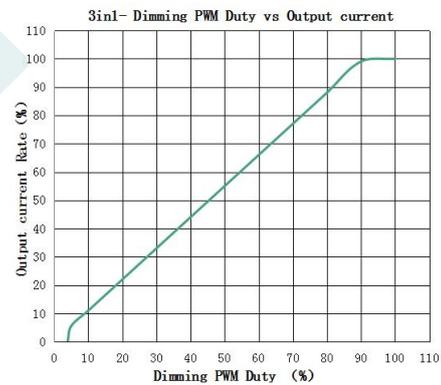
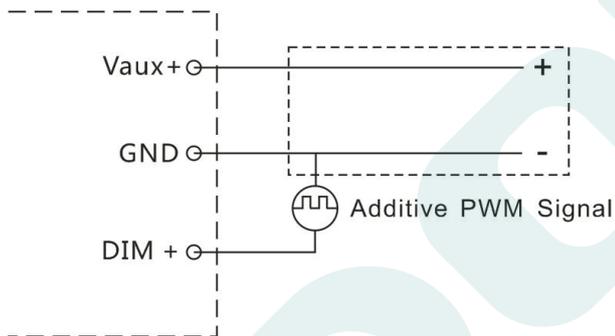
※ Three-in-one dimming function (S/X version)

- A. Connect a resistor 0-100K or 0-10V DC voltage or 10V PWM signal between DIM+ and GND to adjust the output current.
- B. Output current of dimming port: 100uA (typical value).

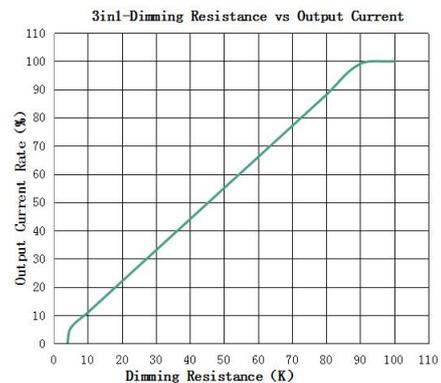
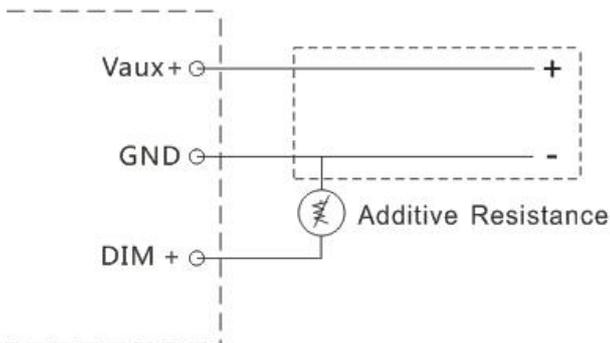
◉Applied voltage of 0-10V:



◉ Applying additive 10V PWM signal (Frequency range : 300Hz-2K Hz) :



◉Applied an additional 0-100K resistor:





Caution:

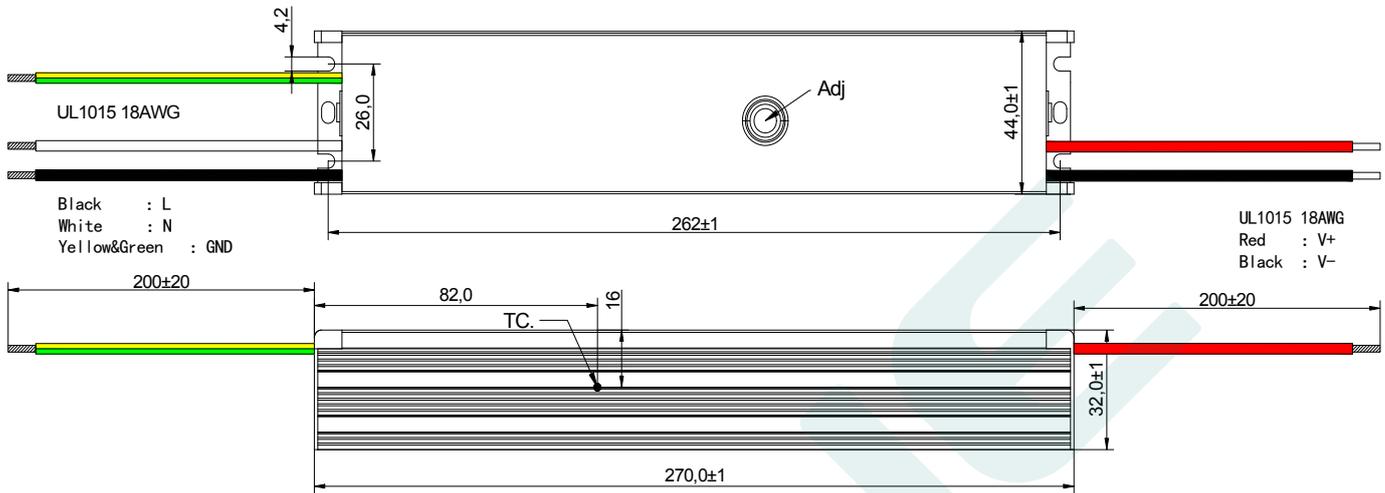
1. It is recommended to design LED beads in series first and then in parallel.
2. There is no excessive heat-dissipating copper foil left on the aluminum substrate.
3. The creepage distance of the aluminum substrate wiring > 5.6mm.
4. The creepage distance between LED+ and LED- on the aluminum substrate > 2.5mm.
5. The insulation level of the LED lamp board should meet the requirements of reliability design. The recommended withstand voltage between the LED lamp beads and the aluminum substrate is 100% full inspection > 3.5KVAC.
6. The final right of interpretation of the parameters above belongs to Guangdong Done Power Technology Co., Ltd.



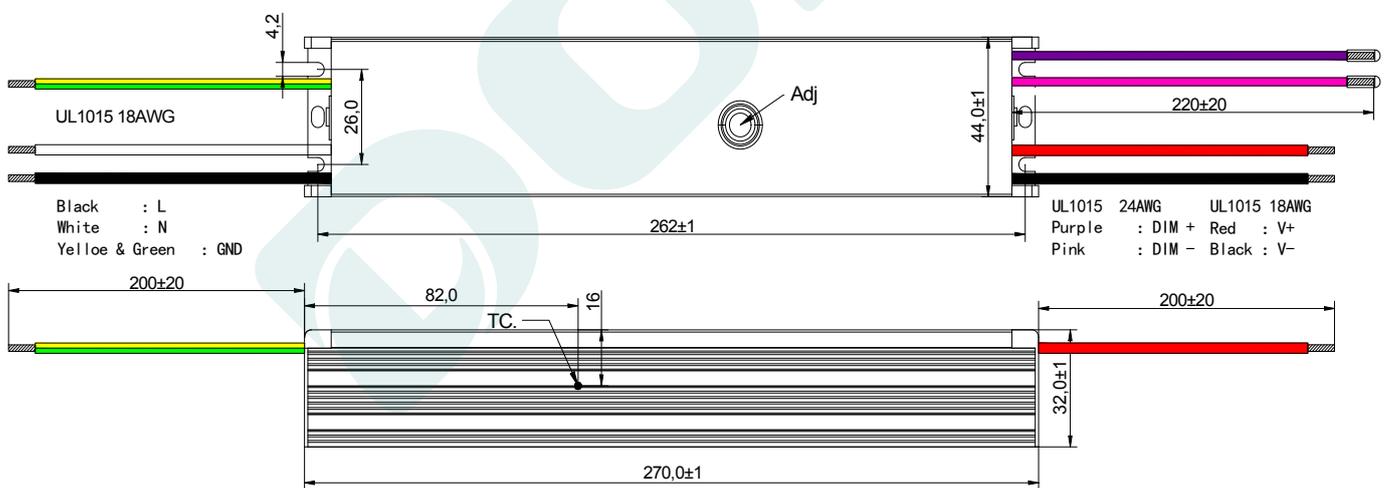
Mechanical Specification

Dimension (mm) L270*W44*H32

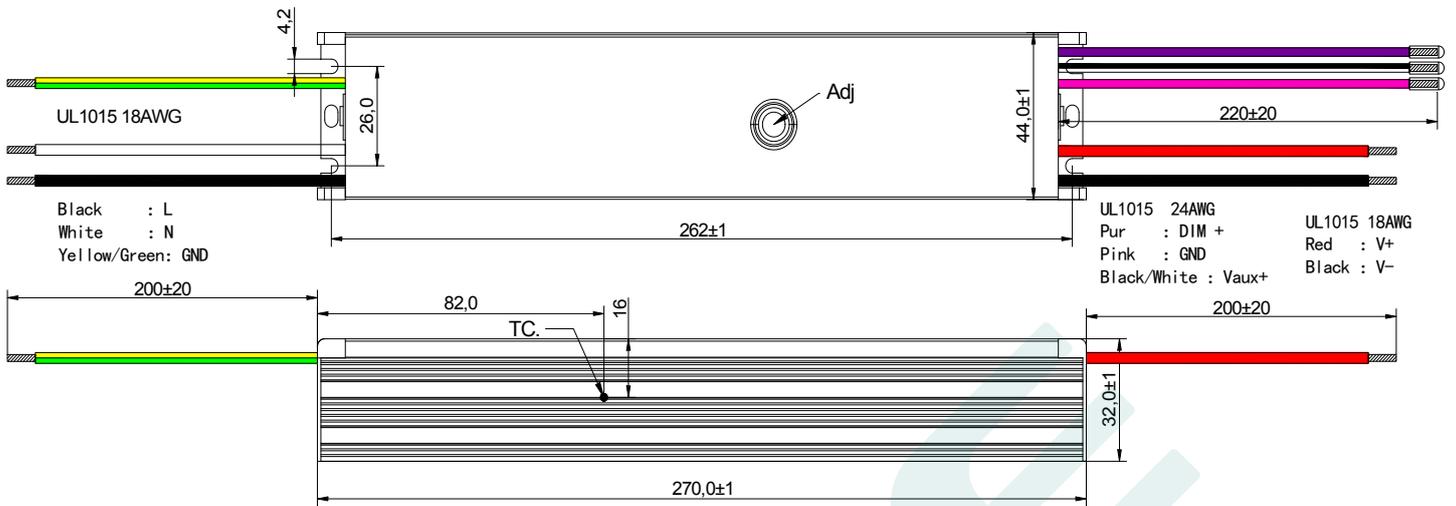
DL-320V-260A-PXG



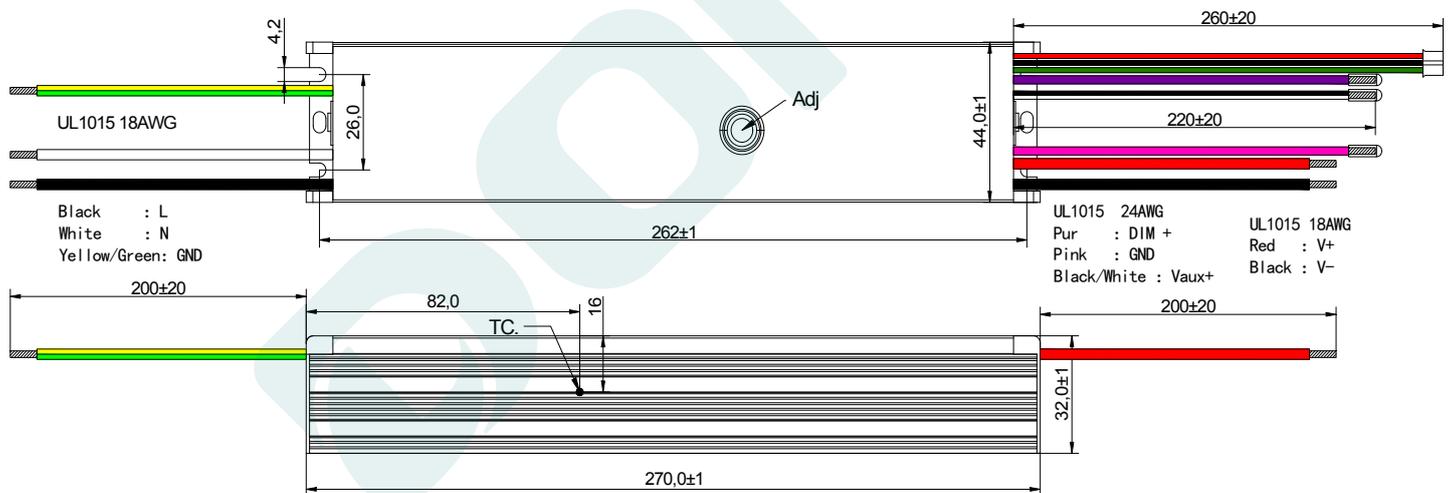
DL-320V-260S-PXG



DL-320V-260X-PXG



DL-320V-260P-PXG(Light-Operated)



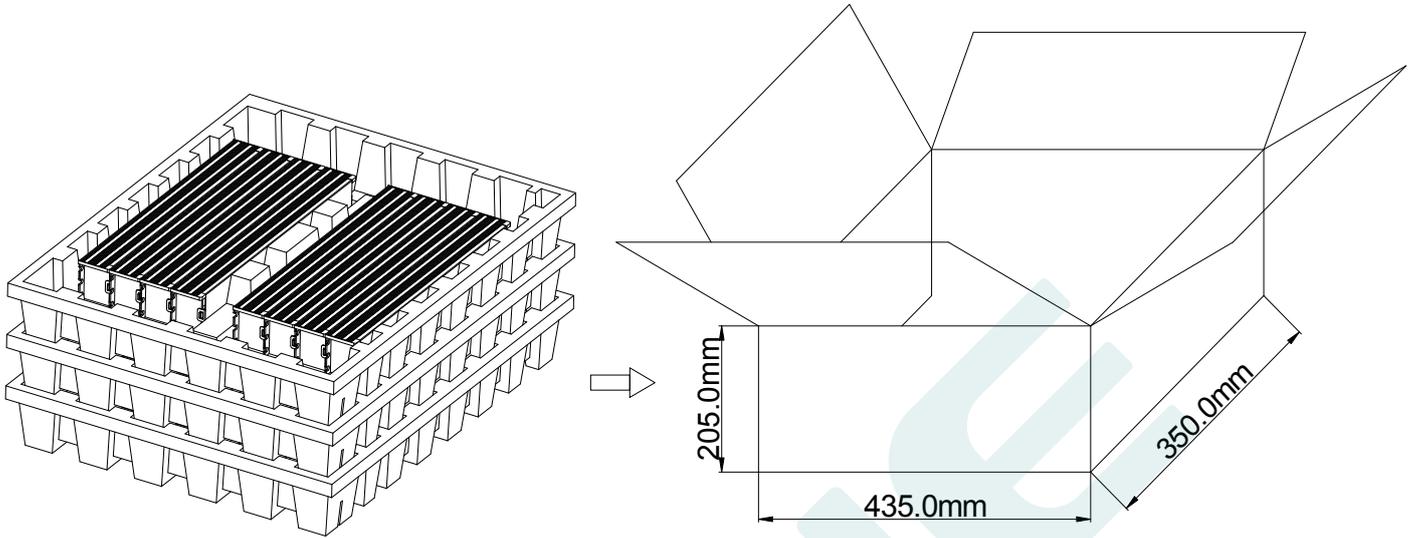
Weight

Weight 720 g

Packaging

BOX (mm)

L435*W350*H205



Note: One Carton 3 layers and 8 pcs each layer, total 24pcs/carton.

Note:

1. According to the certificate obtained by the LED DRIVER, the LED DRIVER with the English label is sold in Europe, America and India.
2. The LED DRIVER with Chinese label is only used for China market.



Revise & Version

DATE	DESCRIPTION	REV.	CHECK
2024.4.28	Initial version.	V1.0	
2024.6.21	Modify the case temperature VS life curve	V1.1	
2025.4.18	Update Package	V1.2	
2025.7.28	Add Turn-on/off voltage on page 4, add residual voltage on page 5, modify Safety Test Item on page 7, add Caution on page 11	V1.3	
2025.9.1	Update Safety Test Item on page 7	V1.4	
2025.9.23	Add CE and CB certifications	V1.5	

MANUFACTURER

EDIT	CHECK	APPROVE

