

KV-DP2A Series 320W & 360W

Whole Family: KV-xxXXX-DP2A (xx=12VDC-320W; xx=24/48VDC-360W) [10W 20W 60W 75W 80W 90W 96W 100W 120W 150W 200W 300W 320W 360W 500W 600W 800W 1000W]



IP66
SELV

RoHS



Features

Output:	Constant Voltage
Range:	200-240VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 93.5%
Protections:	Short circuit / Over load / Over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP66 can be used indoor and outdoor
Design feature:	Driver parameters can be adjusted by APP.
Dimming function:	DALI-2 & PUSH dimming
Min load:	Min load is 20%.
Dimming range:	0.2-100% dimming depth 0.2%
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty

DALI-2 & PUSH Dimmable LED Driver - Constant Voltage Output - KV-DP2A Series 320W & 360W

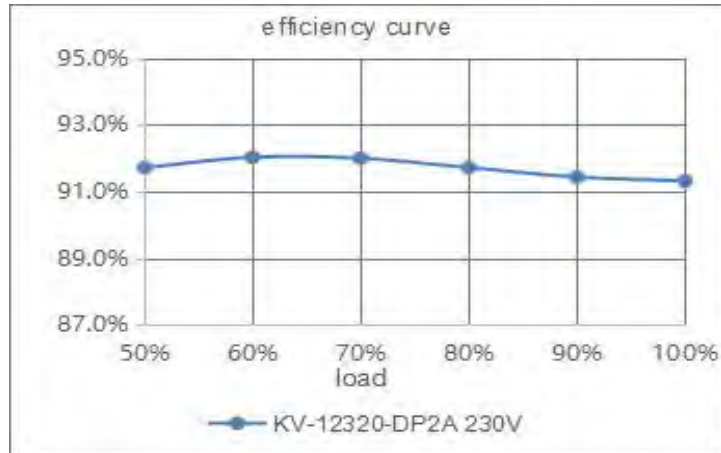
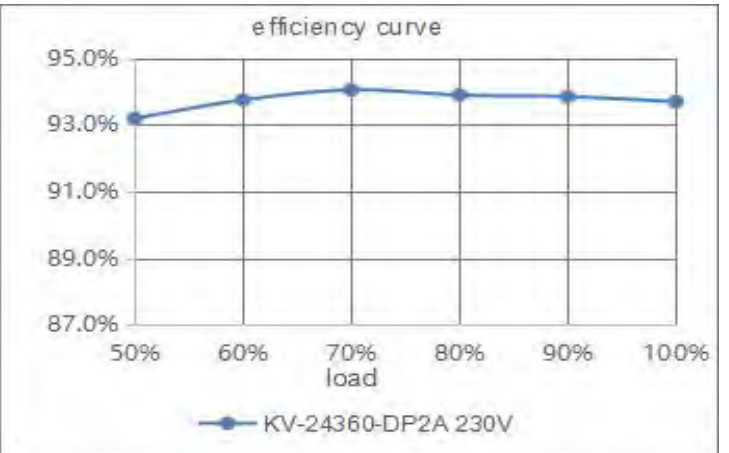
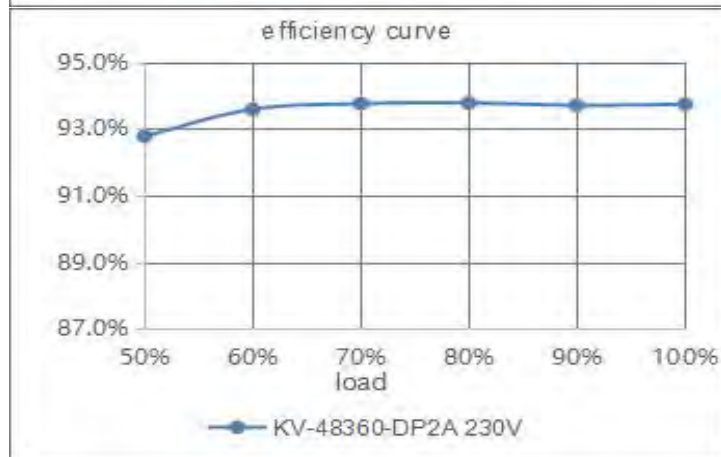
Specification

Model		KV-12320-DP2A	KV-24360-DP2A	KV-48360-DP2A
Certificate		ENEC / CE / SAA / SELV / ROHS / REACH		
Output	DC Voltage	12V	24V	48V
	Voltage Tolerance	±4%	±2%	±2%
	Voltage Regulation	≤0.5%	≤0.5%	≤0.5%
	Load Regulation	±2%	±1%	±1%
	RIPPLE & NOISE (max.)	263mVp-p	395mVp-p	567mVp-p
	Overshoot voltage	<10% (full load)		
	Rated current	26.67A	15A	7.5A
	Rated power	320W	360W	
Input	Voltage Range	200-240VAC		
	Frequency Range	50 / 60Hz		
	Power Factor (Typ.) @ full load	0.95		
	THD(Typ.) @ full load	≤10%@230VAC		
	Efficiency(Typ.) @ full load	≥91%@230VAC	≥93.5%@230VAC	≥93.5%@230VAC
	AC Current (Max.)	1.8A	2.1A	
	Standby power	≤0.5W		
	Inrush Current (Typ.)	70A, 187us @50%Ipeak 230VAC		
	Leakage current	<0.5mA		
Protection	Short Circuit	Shut down o/p voltage, recovers automatically after fault condition is removed.		
	Over Load	105%~110% Hiccup mode, recovers automatically after fault condition is removed.		
	Over temperature	When the ambient temperature exceeds 50°C ±5°C, the output is turned off		
Environment	Working TEMP.	-40~+40°C (see below derating curve)		
	Working Humidity	20 - 95%RH non-condensing		
	Storage TEM.,Humidity	-40 - +80°C,10 - 95% RH non-condensing		
	TEMP.coefficient	±0.03%/°C(0 - 50°C)		
	Vibration	10 ~ 500Hz, 5G 12 minutes/cycle, X Y Z axis 72 minutes each		
Safety & EMC	Safety standards	EN61347-1; EN61347-2-13		
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC		
	Isolation resistance	I/P-O/P: 100MΩ/ 500VDC/ 25°C/ 70% RH		
	Surge Immunity Test	AC Power Line:Differential Mode 2KV,Common Mode 4KV		
	EMC Immunity	EN61547; EN61000-4-2,3,4,5,6,11		
	EMC Emission	EN55015; EN61000-3-2,3		
Others	Net Weight	1.25KG		
	Dimension	302*78.1*25.3mm(L*W*H)		
	Packing	350*300*215mm 20pcs/CTN		

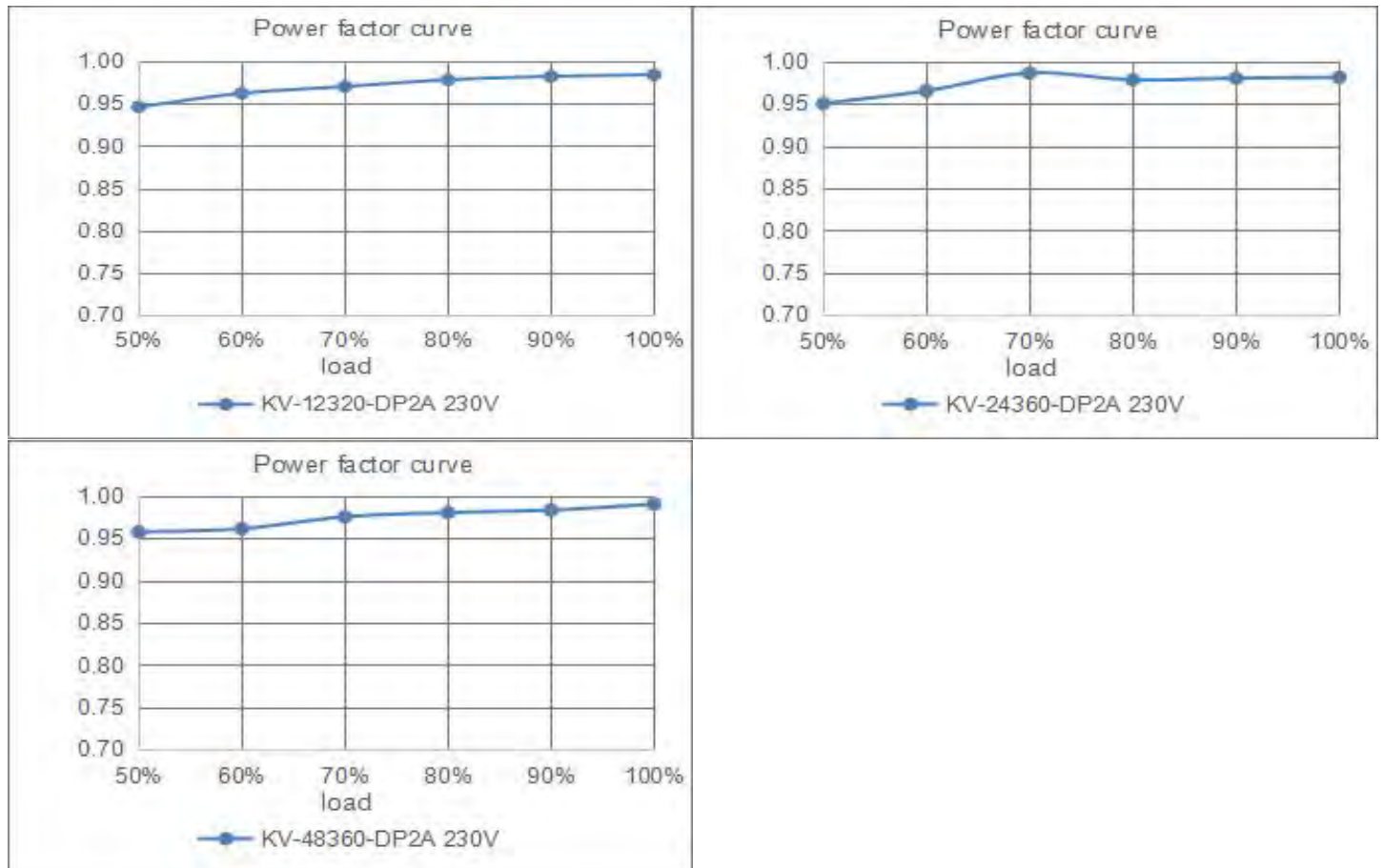
DALI-2 & PUSH Dimmable LED Driver - Constant Voltage Output - KV-DP2A Series 320W & 360W

Notes	<ol style="list-style-type: none">1. Unless otherwise specified, all specifications are measured at 230V input, rated load, and 25°C ambient temperature.2. Default states: Output voltage is DC Rate Voltage. Output frequency is 4KHZ.
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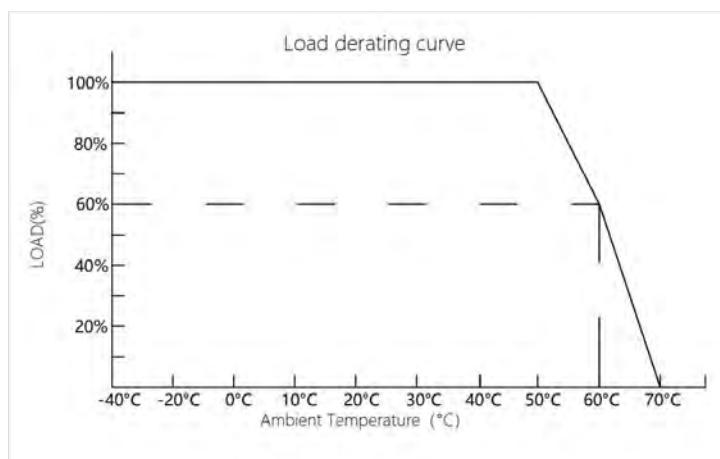
Efficiency Curve (efficiency vs output load)



Power Factor Curve (power factor vs output load)

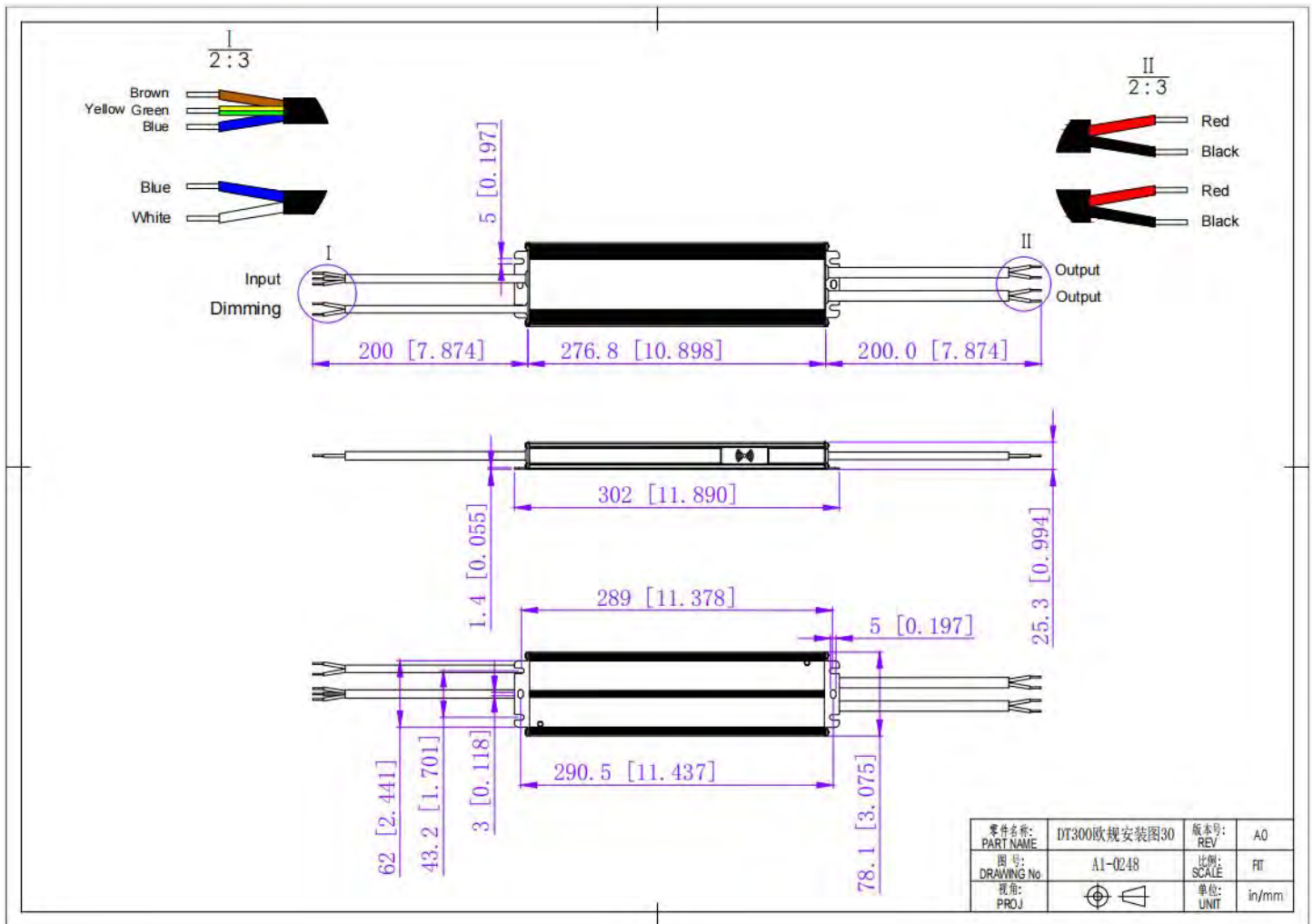


Derating Curve (output load vs TEMP.)



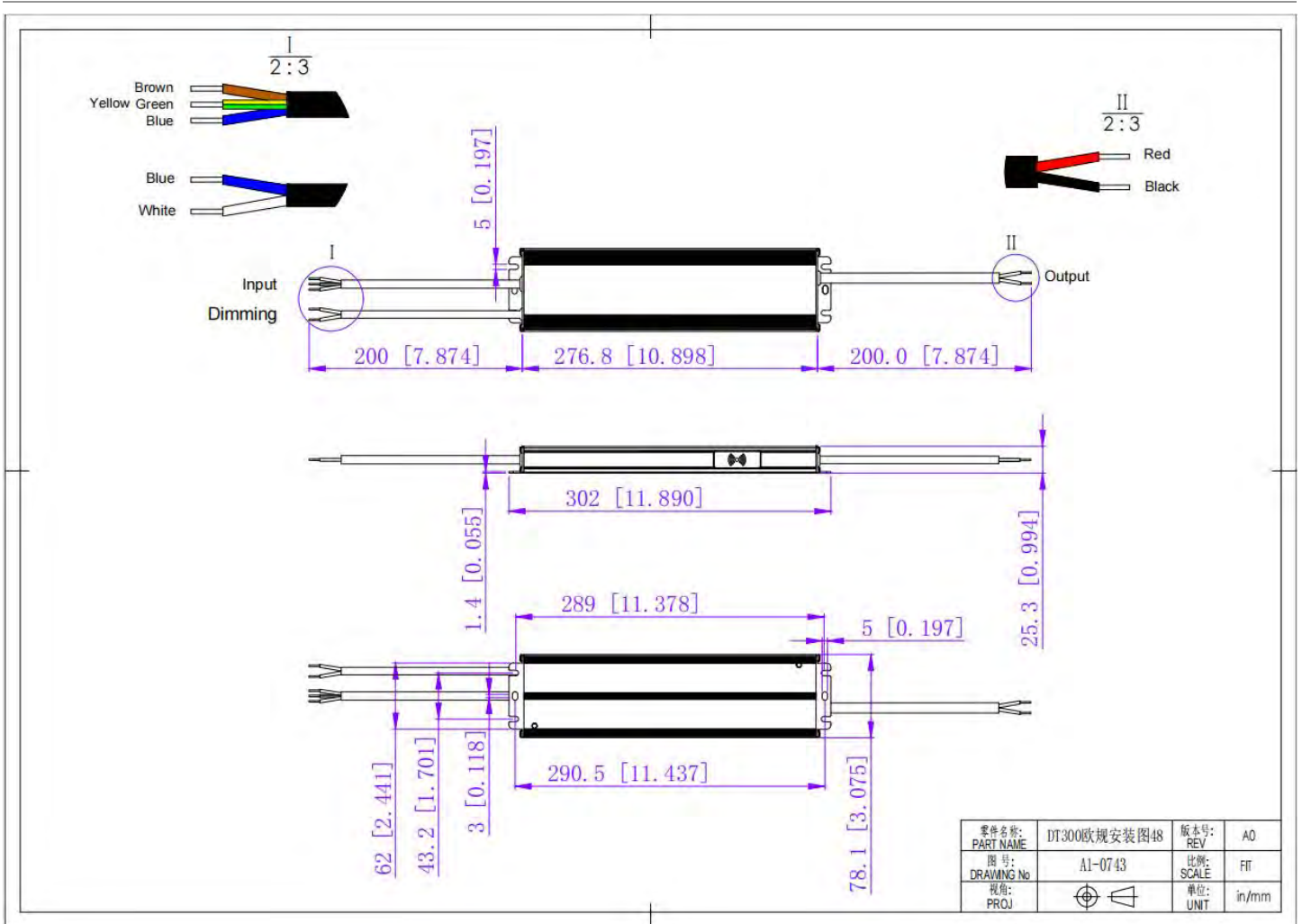
1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. The output current of the LED driver should be selected according to the rated current of the lamp and the ambient temperature. Normally, we recommend the power supply to reserve a certain amount of load to extend LED driver's life.

Mechanical Specification



12V&24V Version

DALI-2 & PUSH Dimmable LED Driver - Constant Voltage Output - KV-DP2A Series 320W & 360W



48V Version

European wire gauge

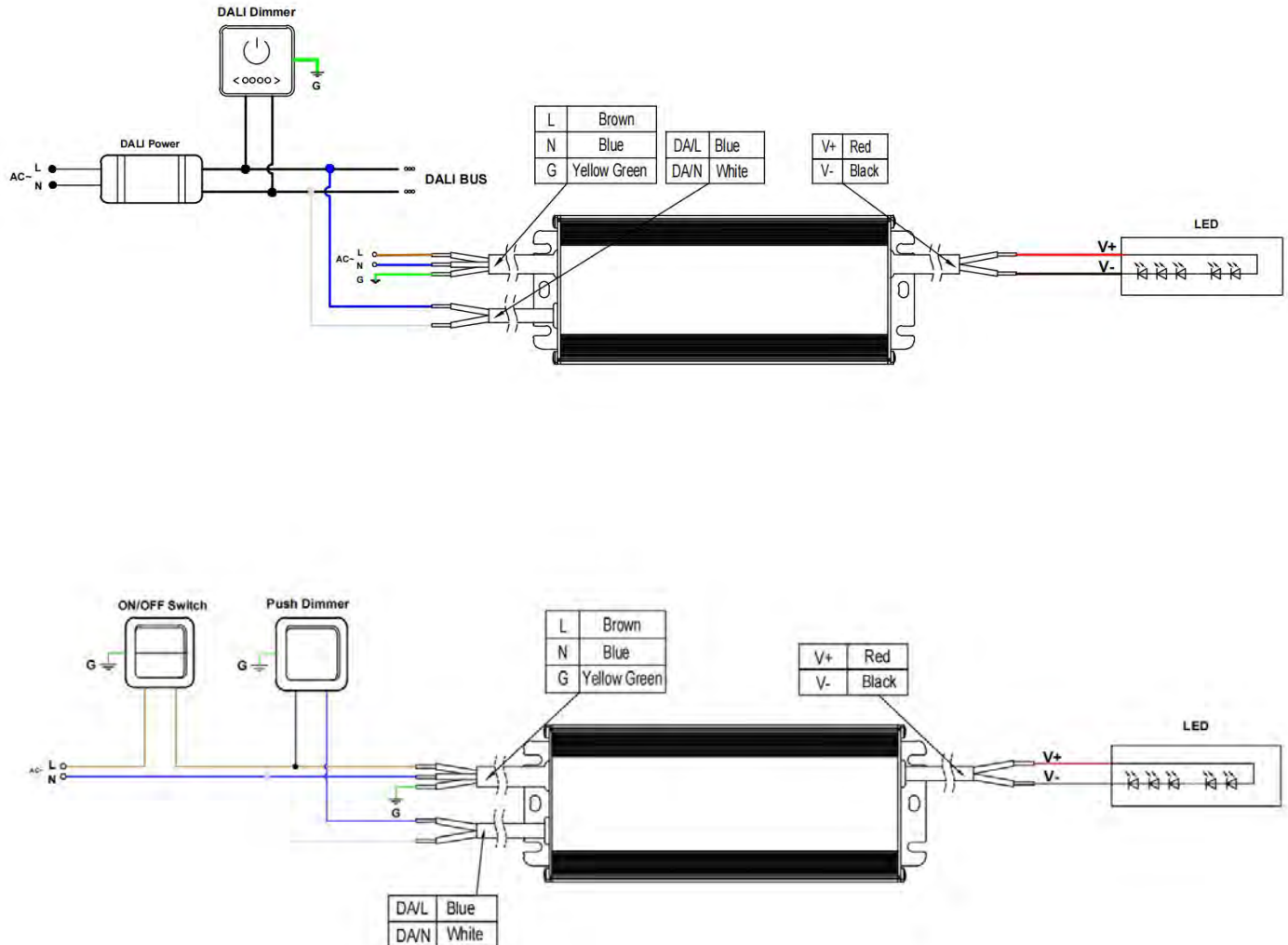
DT300

Input wire	Brown(L) Blue(N) Yellow Green (G) (3*1.0mm ²)
Output wire	12V: Red(V+) Black(V-) (2*2.08mm ²)*2 24V: Red(V+) Black(V-) (2*1.31mm ²)*2 48V: Red(V+) Black(V-) (2*2.08mm ²)
Dimming wire	Blue(DA/L) White(DA/N) (2*1.0mm ²)
Remarks:	

Warm tip:

- Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

Connecting Diagram



NFC function



ProNFC APP



NFC Handheld devices



iOS Download



Android Download

Adjust output voltage slightly by NFC

The output voltage can be read and written by a mobile with ProNFC APP or NFC handheld device (NFC read & write device: NFC-RW) by close to the NFC signal area of the Dimmable LED driver.

NFC voltage regulation level										
	level 1	level 2	level 3	level 4	level 5	level 6	level 7	level 8	level 9	level 10
12V	12.0V	12.2V	12.3V	12.4V	12.5V	12.6V	12.7V	12.8V	12.9V	13V
24V	24.0V	24.2V	24.3V	24.5V	24.7V	24.8V	25V	25.2V	25.3V	25.5V
48V	48.0V	48.2V	48.4V	48.7V	48.9V	49.1V	49.3V	49.6V	49.8V	50V

Set Address easily by NFC

The address can be read and written by a mobile with Set NFC APP or NFC handheld device (NFC read & write device: NFC-RW) by close to the NFC signal area of the Dimmable LED driver.

Instructions

1. This driver should be installed by qualified and professional person.
2. Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
3. Ensure that wiring is correct before test in order to avoid light and power supply damage.