

KV-DP2 Series 30W

Whole Family: KV-XXXX-DP2 12V/ 24V/ 36V/ 48VDC [30W 36W 60W 75W 80W 90W]



Class 2

Class P

SELV



RoHS



Features

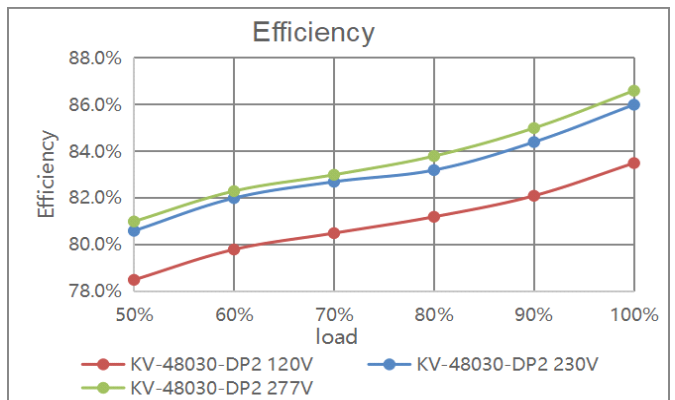
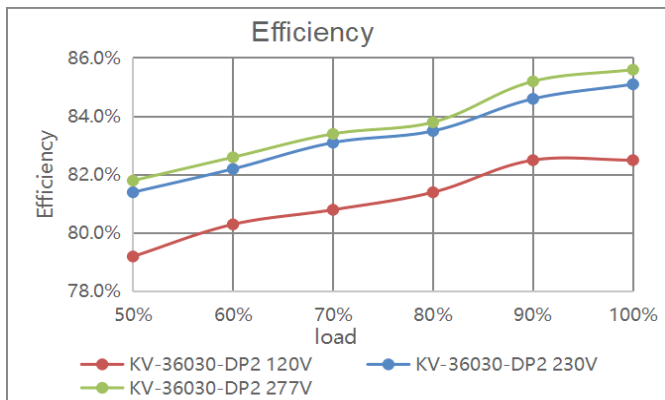
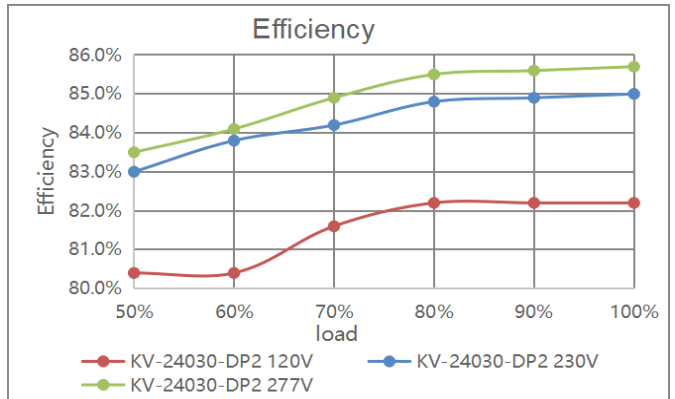
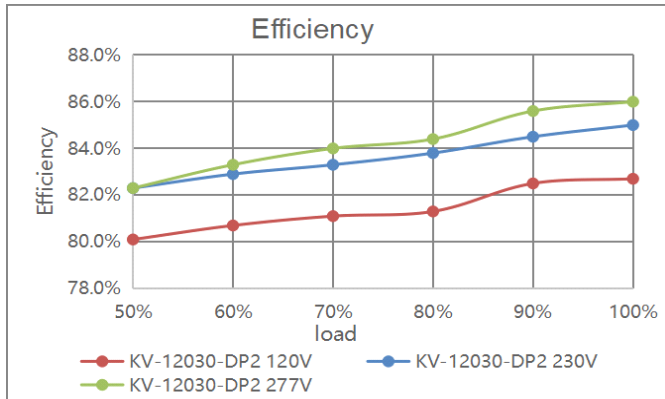
Output:	Constant Voltage
Range:	100-277VAC(US) & 200-240VAC(EU)
PFC design:	Built-in active PFC function
Efficiency:	Up to 84%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP20 for indoor, full plastic housing,for dry,damp location
Dimming function:	DALI2&PUSH dim. Digital dimming, flicker-free dimming
Dimming range:	0-100% dimming depth: 0.1%
NFC function:	Fine tune the output voltage, write and read address
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty

DALI-2/PUSH 2 in 1 Dimmable LED driver 30W

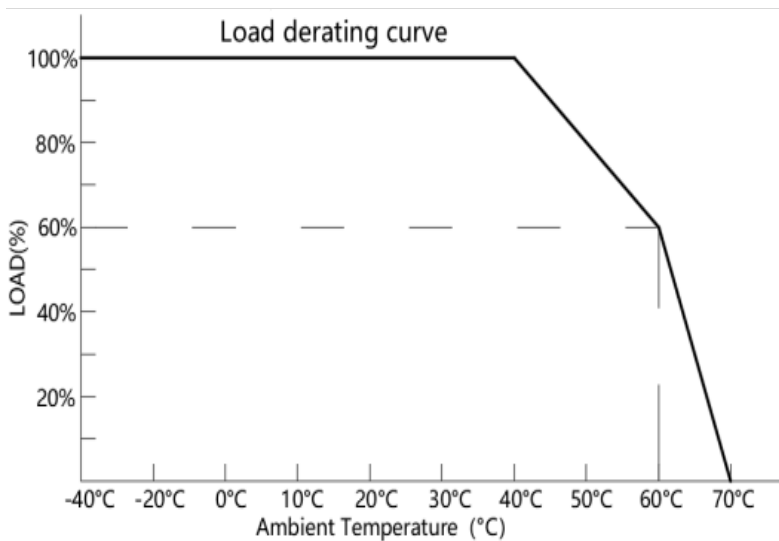
Specification

Model		KV-12030-DP2	KV-24030-DP2	KV-36030-DP2	KV-48030-DP2
Certificate		UL / cUL / Class 2 / Class P / FCC / ENEC / CE / SELV / ROHS / Reach / DALI2			
Output	DC Voltage	12V (12-13.5V adjust by NFC)	24V (24-26V adjust by NFC)	36V (36-38V adjust by NFC)	48V (48-50V adjust by NFC)
	Voltage Tolerance	±0.3V	±0.3V	±0.5V	±0.5V
	Voltage Regulation	0.5%			
	Rated current	2.5A	1.25A	0.83A	0.63A
	Rated power	30W			
	Load Regulation	2%	1%		
Input	Voltage Range	100-277VAC(US) & 200-240VAC(EU)			
	Frequency Range	47 - 63Hz			
	Power Factor @ full load	PF≥0.98@120VAC	PF≥0.95@230VAC	PF≥0.90@277VAC	
	THD(Typ.) @ full load	≤15%			
	Efficiency @ full load	82%@120VAC 60Hz	84%@230VAC 50Hz	84%@277VAC 60Hz	
	AC Current (Max.)	0.42A			
	Inrush Current (Typ.)	9.2A,180us@50%Ipeak@120VAC		22.8A,126us@50%Ipeak@230VAC	
		20.4A, 200us@50%Ipeak@277VAC			
Protection	Leakage current	<0.5mA			
	Short Circuit	Hiccup mode, recover automatically after fault condition is removed			
	Over Load	≤120%, Hiccup mode with lamp, recover automatically after fault condition is removed shut down o/p voltage with resistance test, re-power on to recover after fault condition removed			
Environment	Over temperature	Shell surface temperature 100°C±10°C shut down o/p voltage,automatically recover after the temperature drops.			
	Working TEMP.	-40~+60°C (see below derating curve)			
	Working Humidity	20 - 90%RH non-condensing			
	Storage TEM.,Humidity	-40 - +80°C,10 - 95% RH non-condensing			
	TEMP.coefficient	±0.03%/°C(0 - 50°C)			
Safety & EMC	Vibration	10~500Hz, 2G 10min./1 cycle,period for 60min. each along X,Y,Z axes			
	Safety standards	EN61347-1 EN61347-2-13 (EU) & UL8750 (US)			
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC (EU) I/P-O/P:1.8KVAC I/P-FG:1.8KVAC O/P-FG:1.8KVAC (US)			
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25°C / 70%RH			
Others	EMC Emission	EN55015 EN61000-3-2,3 (≥50%) (EU) & FCC Part 15, Subpart B (US)			
	Net Weight	0.25Kg			
	Dimension	171.5*54*20mm(L*W*H)			
Notes	Packing	250*190*135mm 20PCS/CTN 5.1KG/CTN			
		1. All parameters NOT specially mentioned are measured at rated load and 25°C of ambient temperature. 2. Tolerance: includes set up tolerance and load regulation .			

Efficiency Curve (efficiency vs output load)

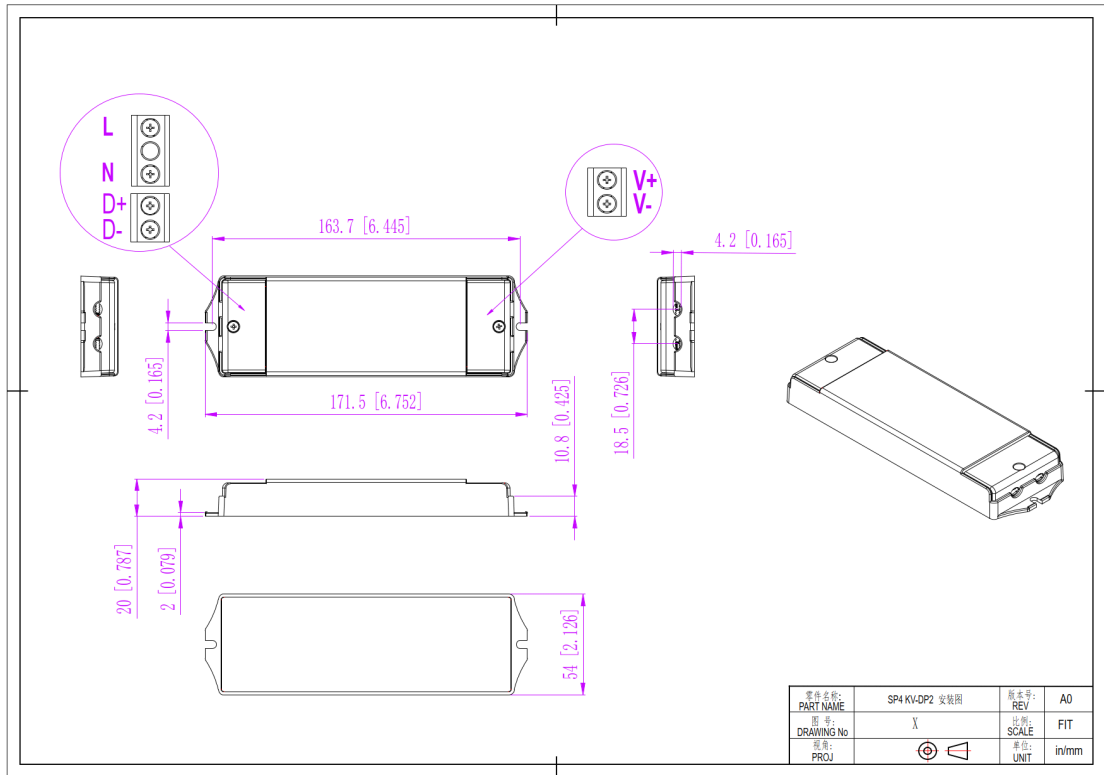


Derating Curve (output load vs TEMP.)



1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. Please note that the rise in temperature of LED fixtures over a long period of time will cause their power to rise. Therefore, we recommend the power supply to reserve a certain amount of load to avoid overloading.

Mechanical Specification



12V&24V&36V&48V Version

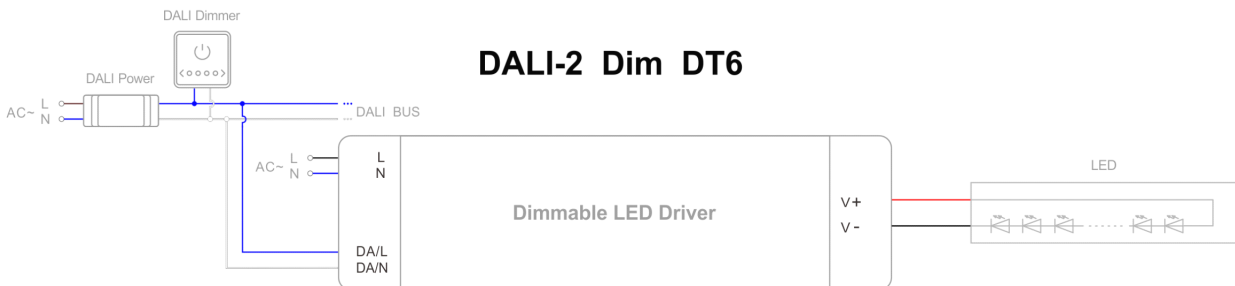
1. Input with DG126 terminals 2P: Live Wire AC (L), Neutral Wire AC(N) .
2. Output LED SEC with DG126 terminals 2P: output Positive (LED+), output negative (LED-). Connected to LED Lamps.
3. DALI or PUSH Dim. terminals with DG126 terminals 2P:
when DALI dimming, signal dimming DA1, DA2 (No polar) connected to the BUS of the DALI Master;
when PUSH dimming, (N) is connected to AC (N) while white (L) is connected to Push dim switch dimmer(L) .
4. Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

Warm tips:

1. Suggested wire diameter: Input 0.75mm²- 2mm²; Output: 0.5mm²- 2mm².
2. Any other requests for, we can customized.

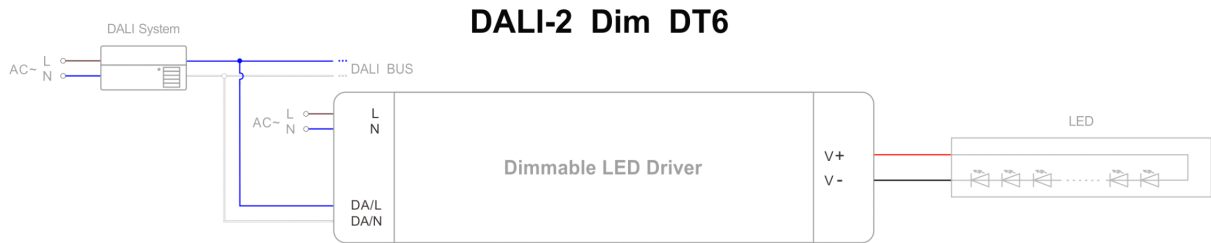
Dimming Operation and Connecting Diagram (For European Market)

● Using DALI-2 dimming with DALI power and dimmer

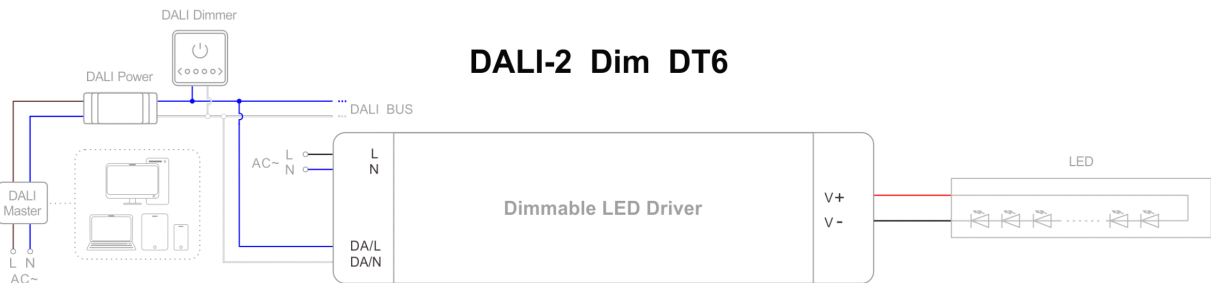


DALI-2/PUSH 2 in 1 Dimmable LED driver 30W

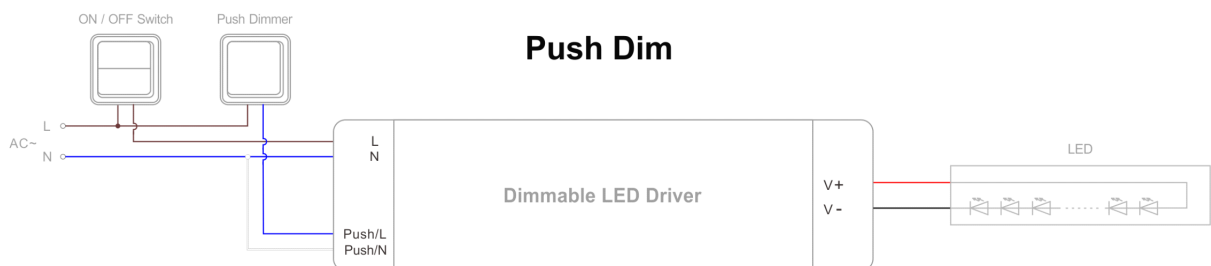
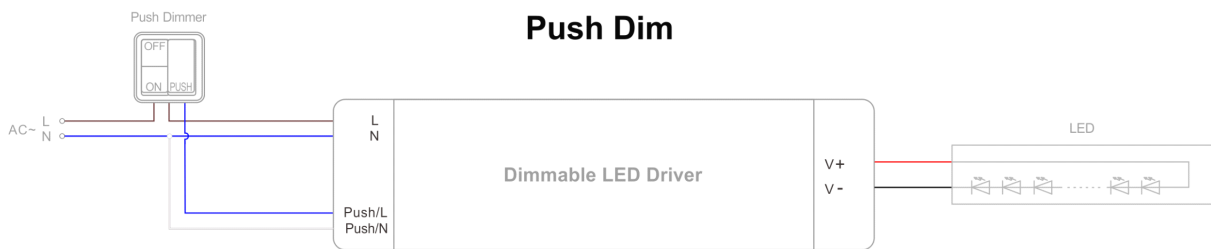
- Using DALI-2 dimming with DALI system and DALI bus



- Using DALI-2 dimming with intelligent device, DALI master and dimmer

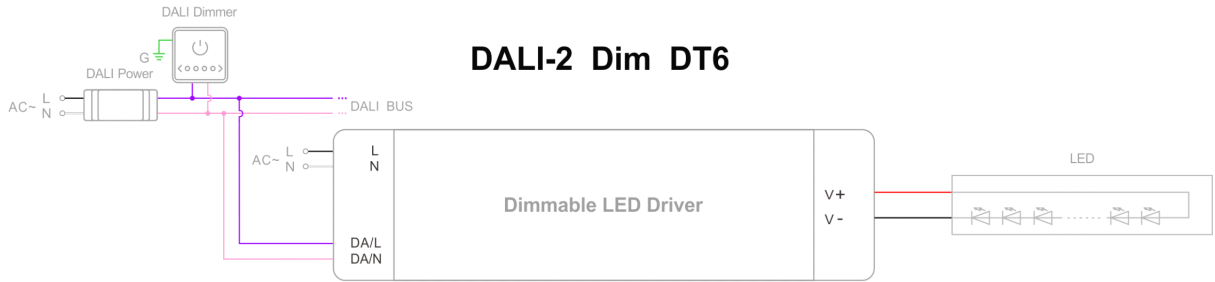


- Using PUSH dimming with dimmer (on & off function)

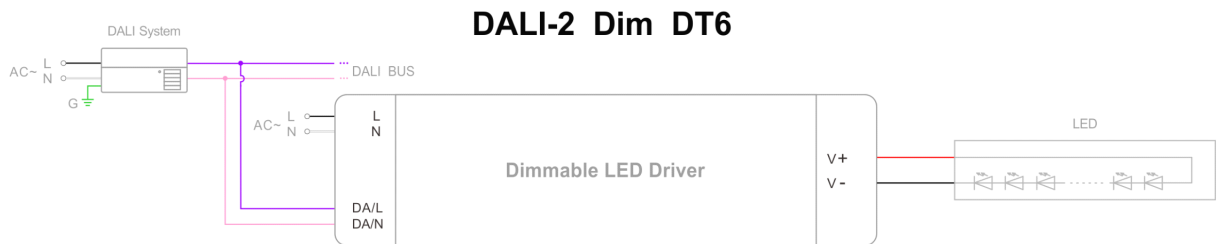


Dimming Operation and Connecting Diagram (For North American Market)

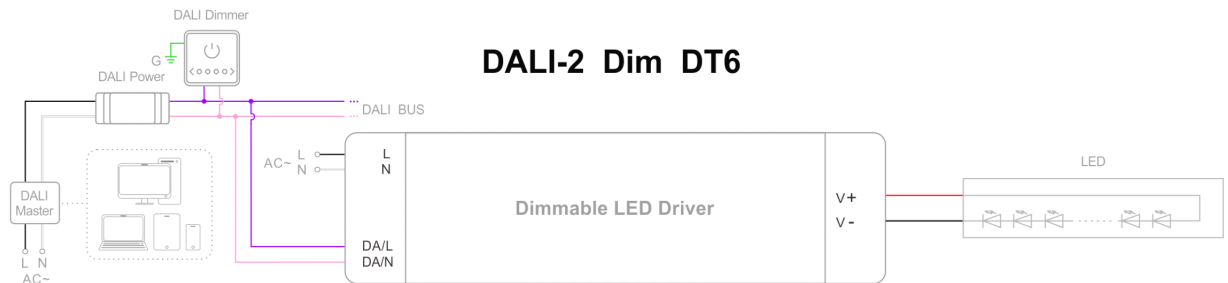
- **Using DALI-2 dimming with DALI power and dimmer**



- **Using DALI-2 dimming with DALI system and DALI bus**

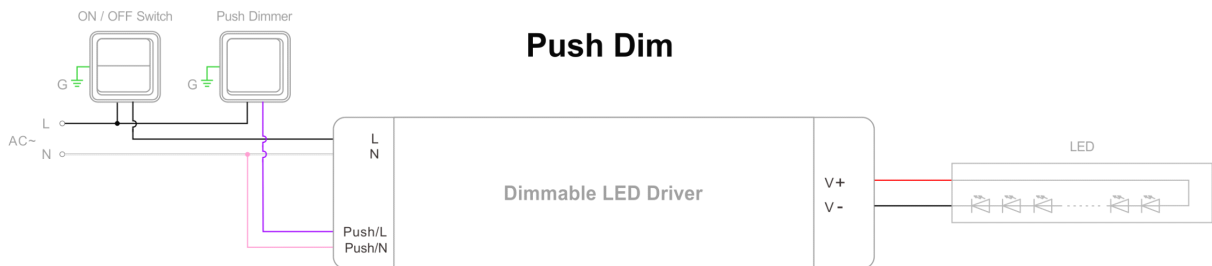
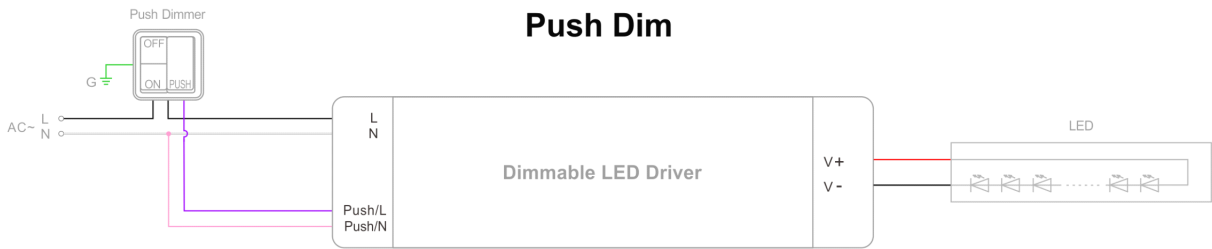


- **Using DALI-2 dimming with intelligent device, DALI master and dimmer**

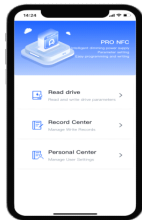


DALI-2/PUSH 2 in 1 Dimmable LED driver 30W

- **Using PUSH dimming with dimmer (on & off function)**



NFC Function



ProNFC APP



NFC Handheld devices

- **Address settings:**

NFC setting address:

The address 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 DALI-2 PUSH 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	12V	12.2V	12.3V	12.5V	12.6V	12.8V	13V	13.1V	13.3V	13.5V
24V	24V	24.2V	24.4V	24.7V	24.9V	25.1V	25.3V	25.6V	25.8V	26.0V
36V	36V	36.2V	36.4V	36.7V	36.9V	37.1V	37.3V	37.6V	37.8V	38.0V
48V	48V	48.2V	48.4V	48.7V	48.9V	49.1V	49.3V	49.6V	49.8V	50.0V

Instruction

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.
4. If driver Cannot work normally, don't maintain privately.