DALI-2/PUSH 2 in 1 Dimmable LED driver 200W

KV-2C-DP2A Series 200W

Whole Family: KV-XXXXX-2C-DP2A 12V/ 24V/ 36V/ 48V DC - [200W]

Features

Output:	Constant Voltage
Range:	100-277VAC
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:	Full protection aluminum housing, for dry, damp, wet locations; IP66
Dimming function:	DALI &PUSH 2 in 1 dimming (CCT) , PWM output frequency 4KHz Stroboscopic exemption
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

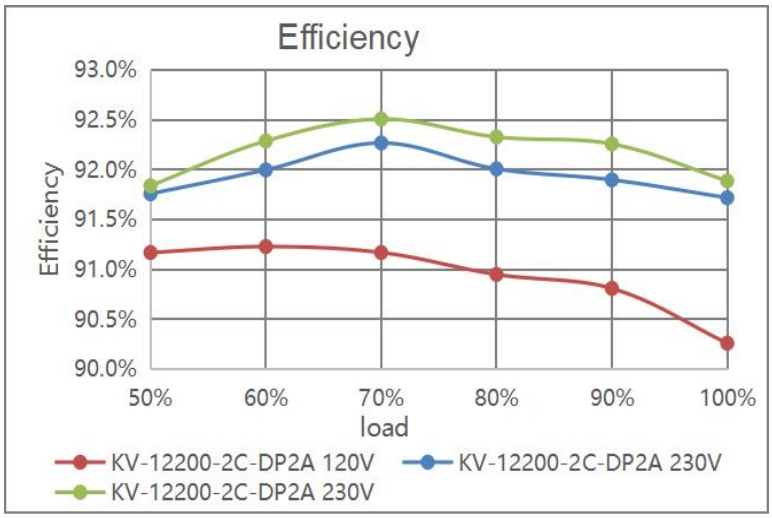
DALI-2/PUSH 2 in 1 Dimmable LED driver 200W

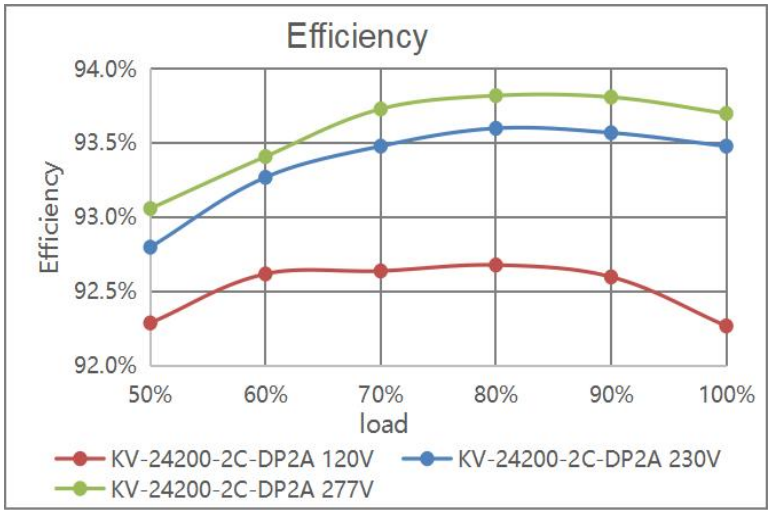
Specification

Model		KV-12200-2C-DP2A	KV-24200-2C-DP2A	KV-36200-2C-DP2A	KV-48200-2C-DP2A
Certificate		CE、ENEC、UL、FCC、SELV、DALI2			
Output	DC Voltage	12V (12-13.5Vadjust by NFC)	24V (24-26V adjust by NFC)	36V (36-38V adjust by NFC)	48V (48-50V adjust by NFC)
	Voltage Tolerance	±0.5V			
	Voltage Regulation	0.5%			
	Rated current	CW+WW=16.67A	CW+WW=8.33A	CW+WW=5.56A	CW+WW=4.17A
	Rated power	200W			
	Load Regulation	2%	1%	1%	1%
Input	Voltage Range	100-277VAC			
	Frequency Range	47 - 63Hz			
	Power Factor (Typ.) @ full	PF≥0.98@120VAC PF≥0.98@230VAC PF≥0.97@277VAC			
	THD(Typ.) @ full load	≤10%@120VAC ≤10%@230VAC ≤15%@277VAC			
	Efficiency(Typ.) @ full load	90%@120VAC 91.5%@230VAC 91.5%@277VAC	92%@120VAC 93.5%@230VAC 93.5%@277VAC	92%@120VAC 93.5%@230VAC 93.5%@277VAC	92%@120VAC 93.5%@230VAC 93.5%@277VAC
	AC Current (Max.)	2.3A			
	Inrush Current (Typ.)	38.4A, 50%, 510us @120VAC; 88A, 50% , 120us @230VAC 48A, 50% , 560us @277VAC			
	Leakage current	<0.5mA			
Protection	Short Circuit	Hiccup mode, recover automatically after fault condition is removed			
	Over Load	≤120% ,hiccup mode, recover automatically after fault condition is removed			
	Over temperature	Ambient temp. over 55℃±10℃, output will be off; recovers automatically after temp. drops.			
Environment	Working TEMP.	-40~+60℃ (see below derating curve)			
	Working Humidity	20 - 90%RH non-condensing			
	Storage TEM.,Humidity	-40 - +80℃,10 - 95% RH non-condensing			
	TEMP.coefficient	±0.03%/℃(0 - 50℃)			
	Vibration	10~500Hz, 5G 10min./1 cycle, period for 60min. each along X,Y,Z axes			
Safety & EMC	Safety standards	EN61347-1 EN61347-2-13 UL8750 CAN/CSA-C22.2 No. 250.13			
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC (Europe) I/P-O/P:1.80KVAC I/P-FG:1.8KVAC O/P-FG:1.8KVAC (America)			
	Isolation resistance	I/P-O/P：100MΩ/500VDC/25℃/70%RH			
	EMC Emission	EN55015 EN61000-3-2,3（≥50%load） FCC Part 15 Subpart B			
Others	Net Weight	1.03Kg	1.02Kg	1.02Kg	1.02Kg
	Dimension	279*78*25.1mm (L*W*H)			
	Packing	330*300*215mm 20pcs /CTN			

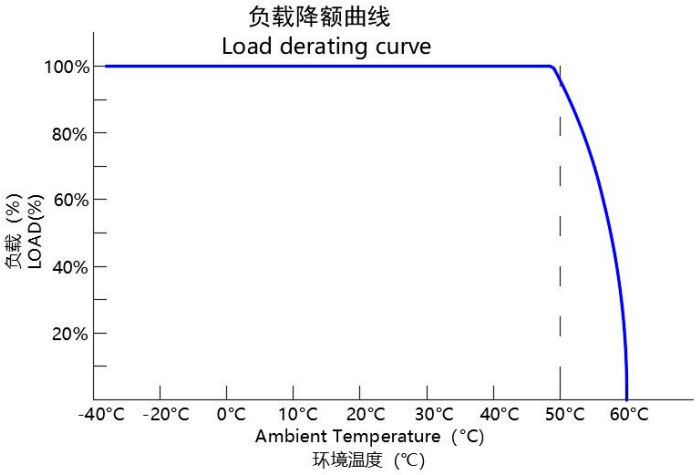
Notes	1. All America parameters NOT specially mentioned are measured at 120VAC input, rated load and 25℃of ambient temperature. 2. All Europe parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃of ambient temperature. 3. Tolerance: includes set up tolerance and load regulation .

Efficiency Curve (efficiency vs output load)



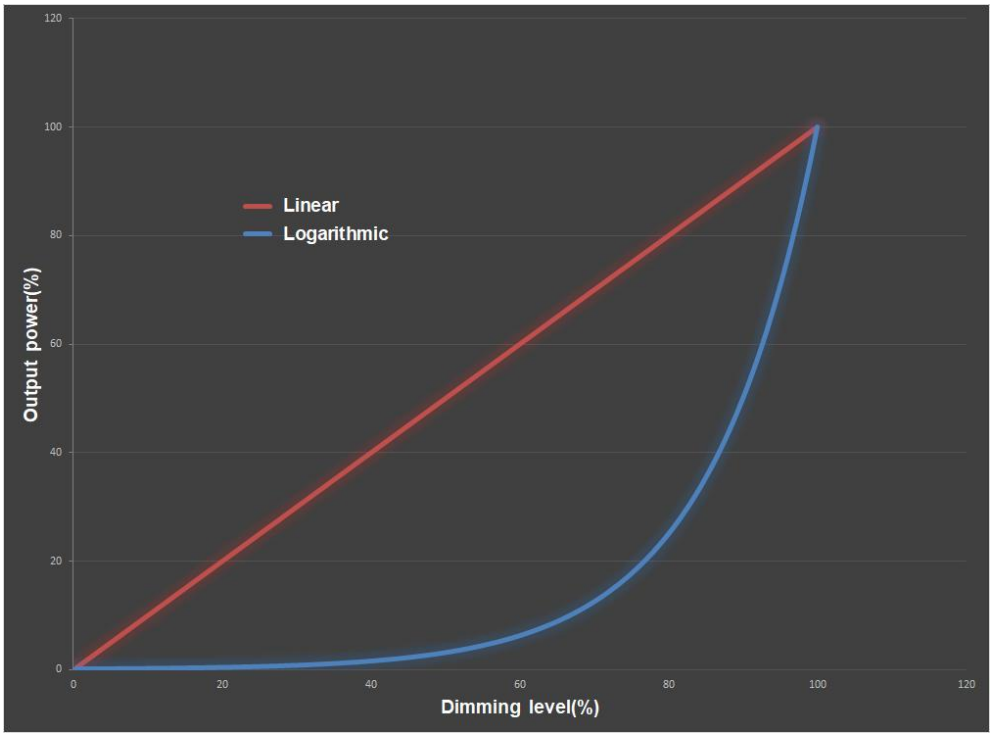


Derating Curve (output load vs TEMP.)



❖ To extend their life, please refer to the Derating Curve and derate according to the temperature.

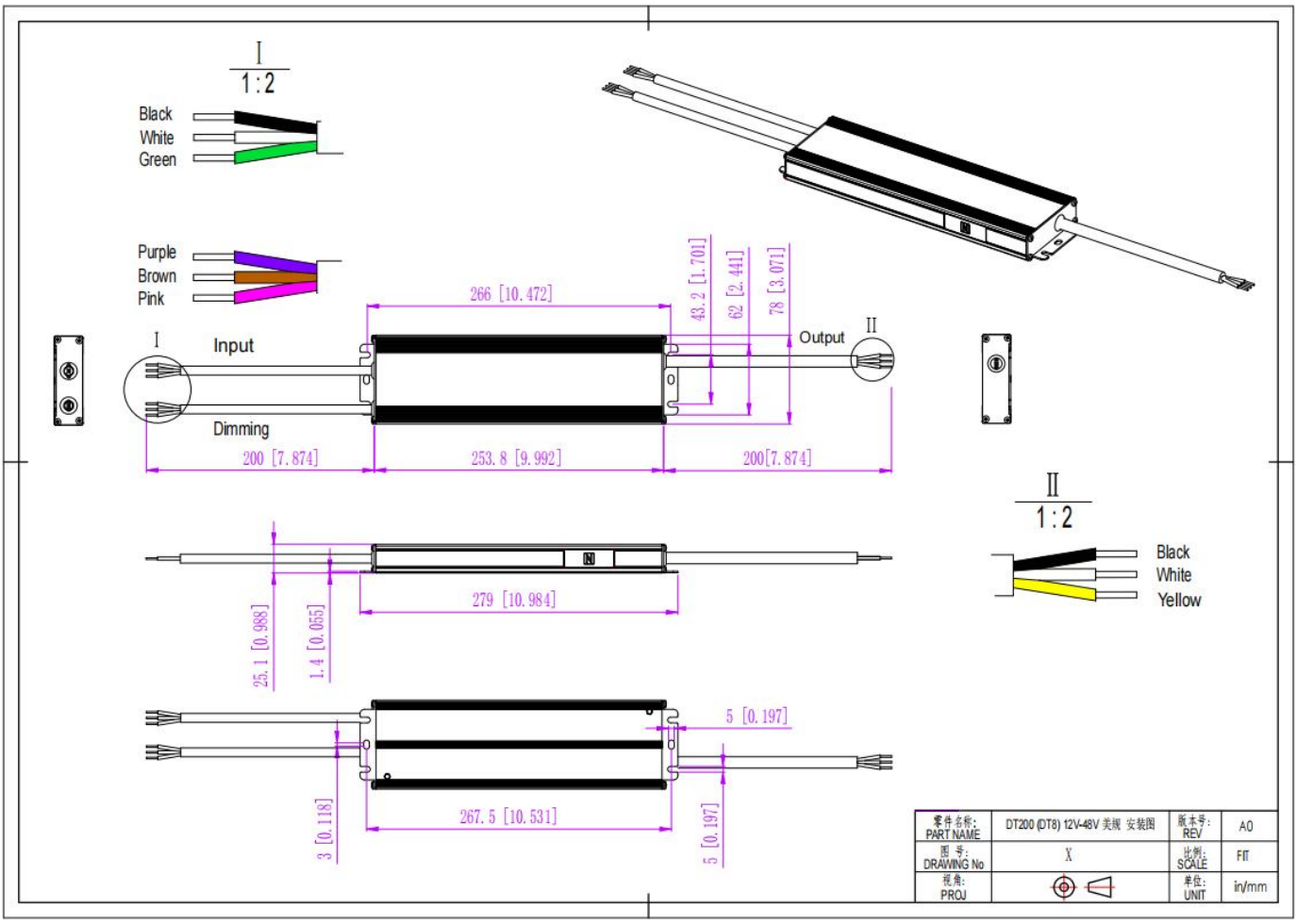
Whole Brightness Dimming Curve



Note: Logarithmic dimming curve and Linear dimming curve for choice

Logarithmic (default)

Mechanical Specification (For North American Market)



12-48V Version

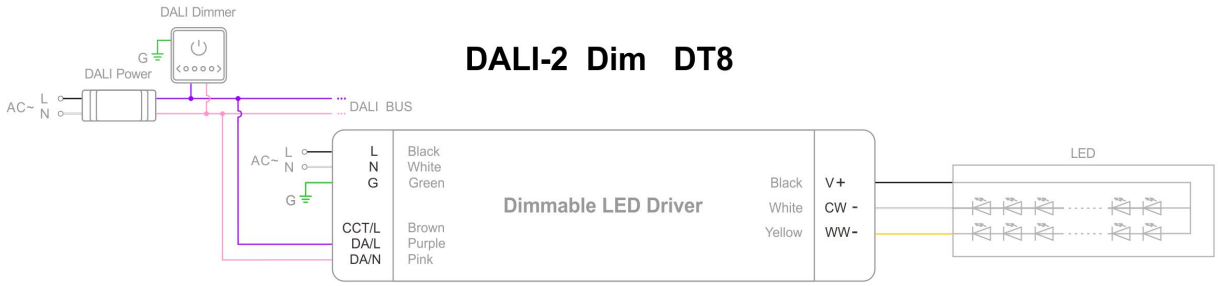
1. Input cable 3*18AWG, the Black cable to (L), the White cable to (N), and the Green cable to (FG)
2. Output cable 3*14AWG (12V), 3*16AWG (24V/36V/48V), Black cable (+) to Positive side(+), White cable (-) and Yellow cable (-) to Negative side (-).
3. Dimming cable 3*18AWG, Pink DA/N and Purple DA/L (No polar) connected to the DALI BUS when use DALI function. Pink (N) is connected to AC (N) while Purple (L) and Brown (CCT Push)connected to CCT Push dim switch dimmer(L) when use Push function.

Warm tips:

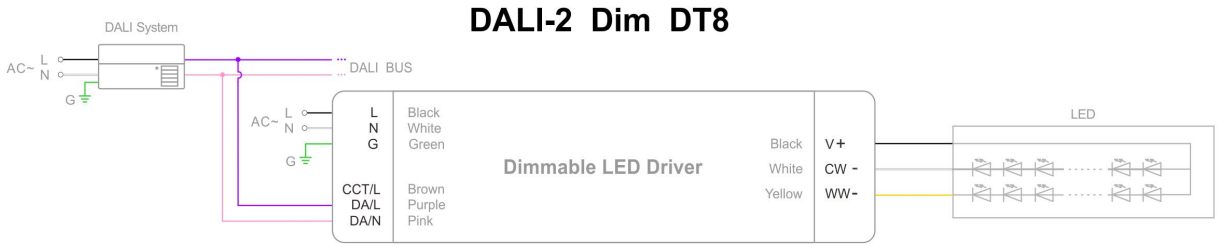
1. Any other requests for cable, we can customized.

Dimming Operation and Connecting Diagram

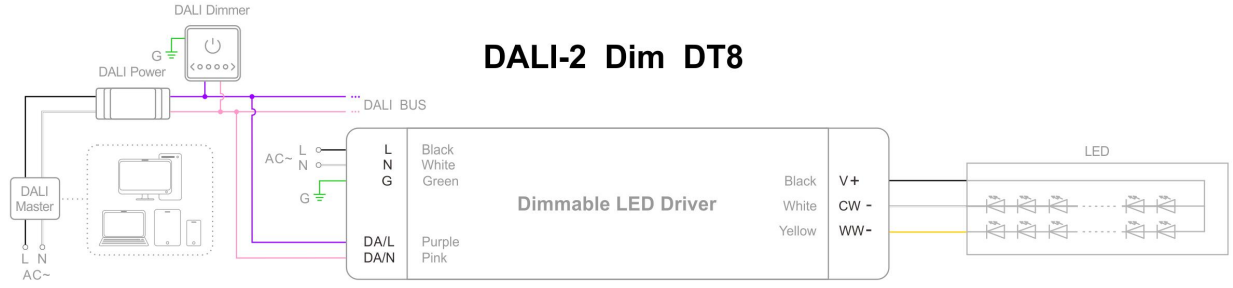
- **Using DALI-2 dimming with DALI power and dimmer**



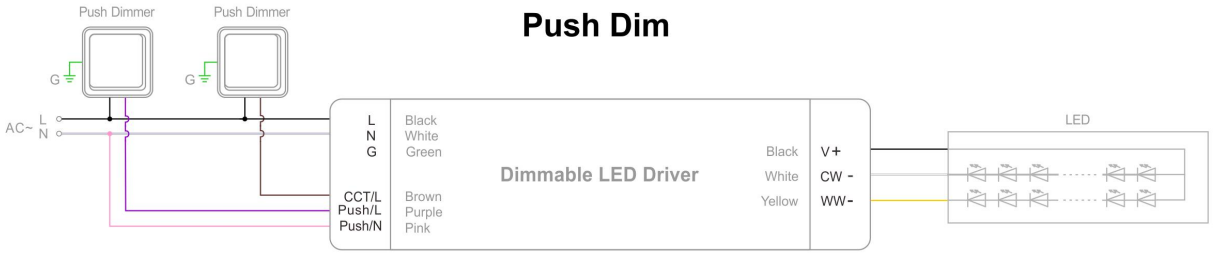
- **Using DALI-2 dimming with DALI system and DALI bus**

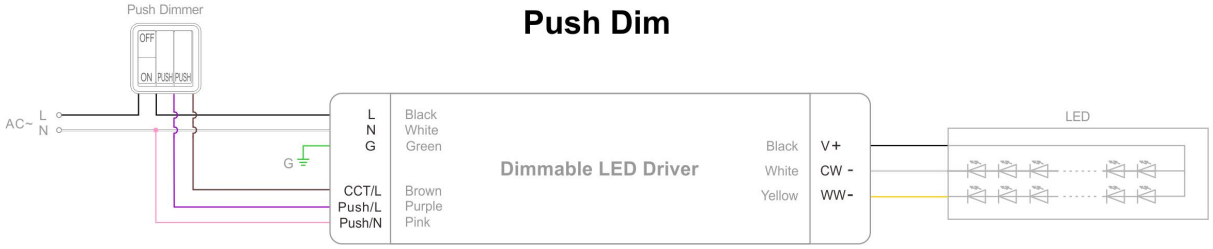


- **Using DALI-2 dimming with intelligent device, DALI master and dimmer**

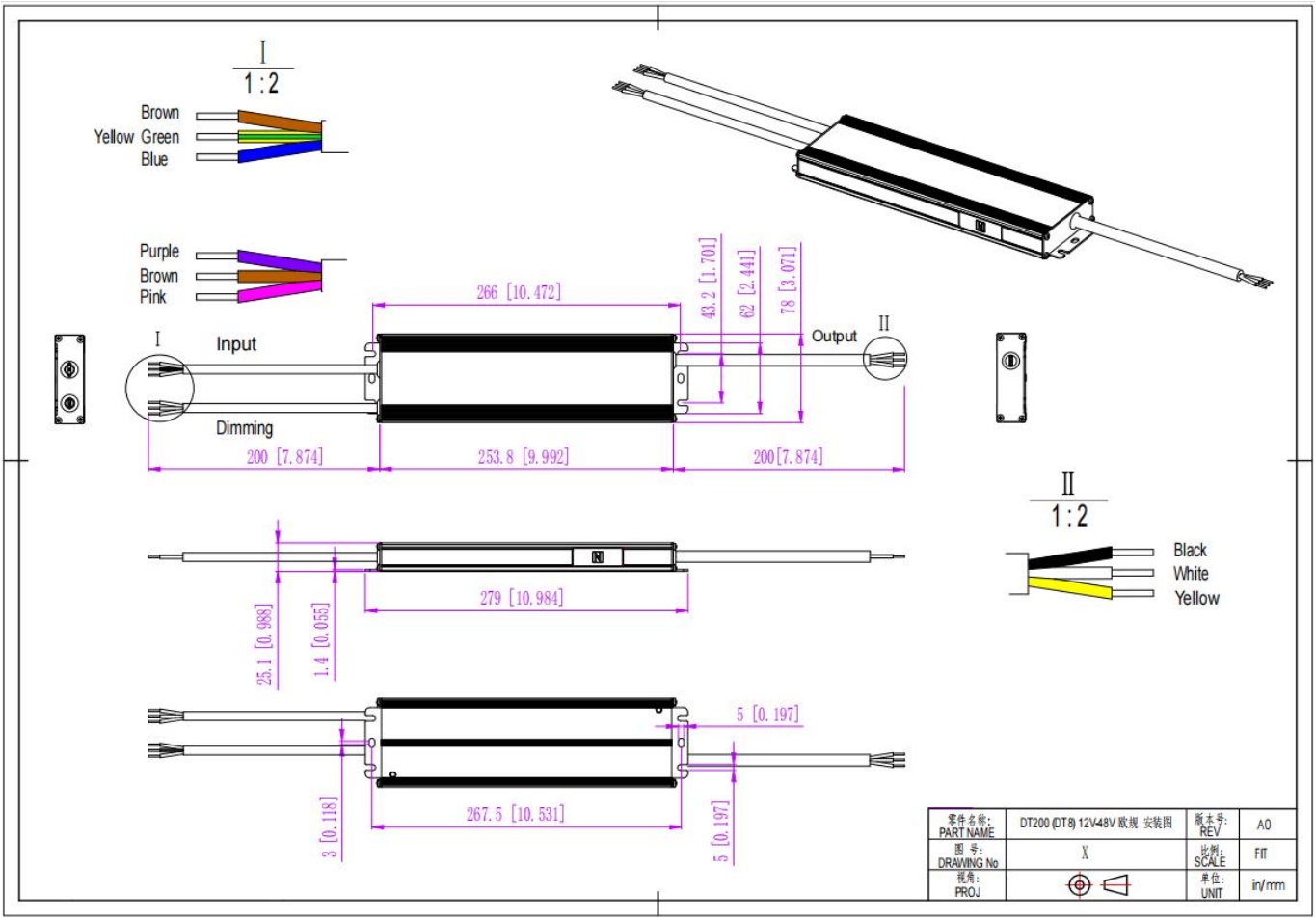


- **Using PUSH dimming with dimmer (on & off function)**





Mechanical Specification (For European Market)



12-48V Version

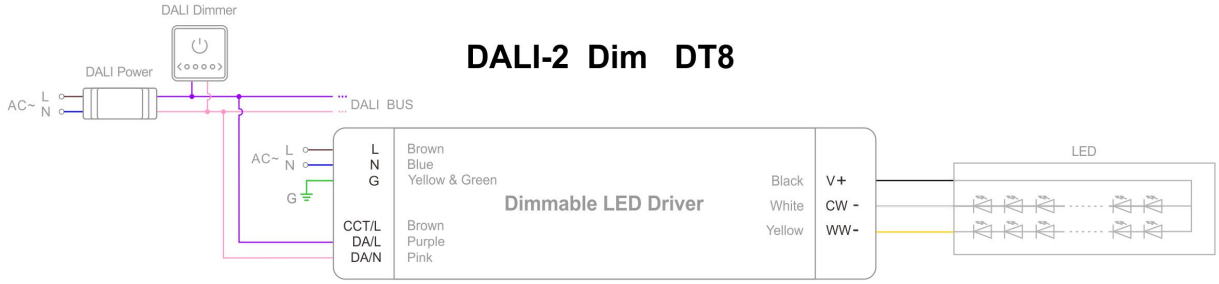
1. Input cable 3*1.0mm^2, the Brown cable to (L), the Blue cable to (N), and the Yellow & Green cable to (FG)
2. Output cable 3*2.088mm^2 (12V), 3*1.31mm^2 (24V/36V/48V), Black cable (+) to Positive side(+), White cable (-) and Yellow cable (-) to Negative side (-).
3. Dimming cable 3*0.824mm^2, Pink DA/N and Purple DA/L (No polar) connected to the DALI BUS when use DALI function. Pink (N) is connected to AC (N) while Purple (L) and Brown (CCT Push)connected to CCT Push dim switch dimmer(L) when use Push function.

Warm tips:

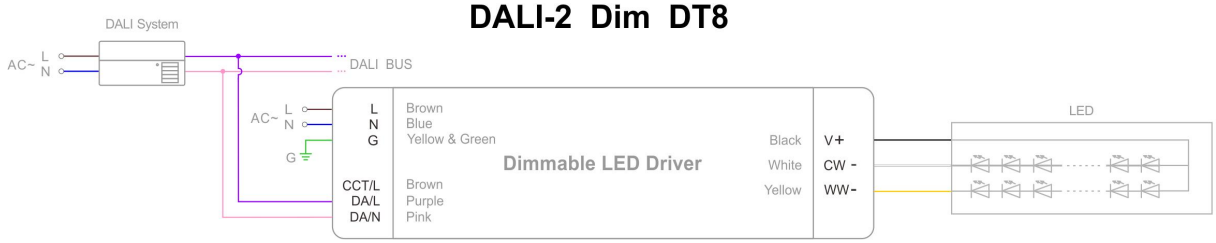
1. Any other requests for cable, we can customized.

Dimming Operation and Connecting Diagram

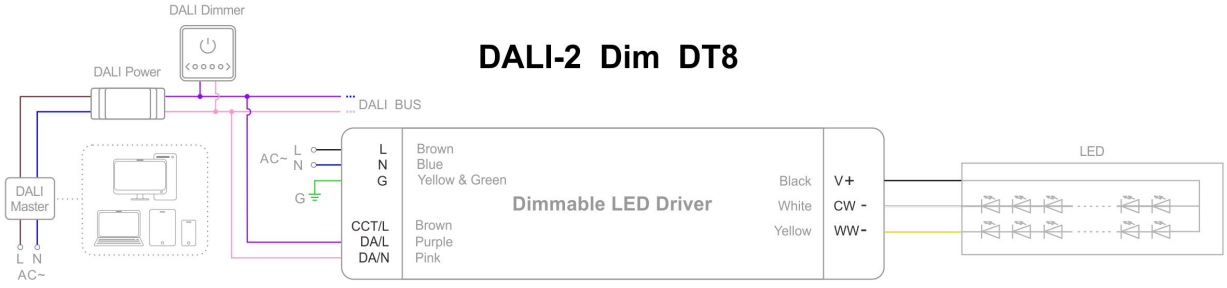
- **Using DALI-2 dimming with DALI power and dimmer**



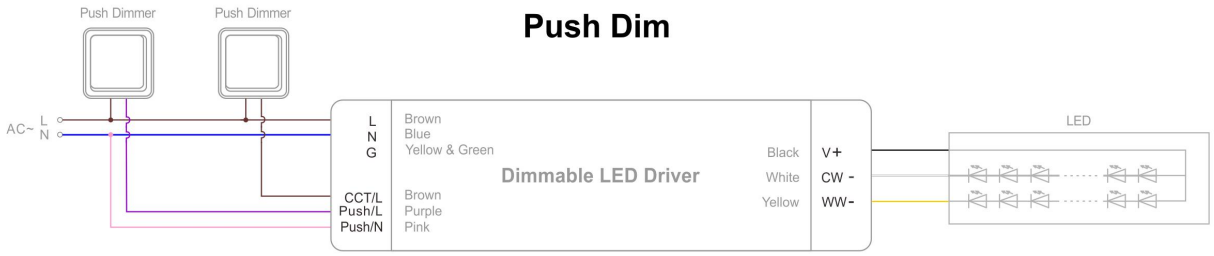
- **Using DALI-2 dimming with DALI system and DALI bus**

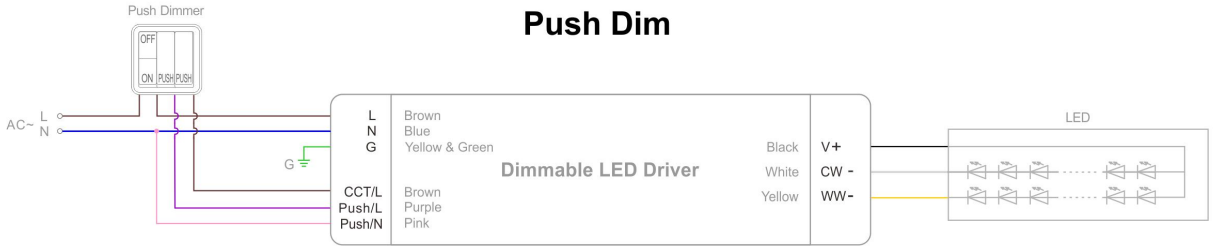


- **Using DALI-2 dimming with intelligent device, DALI master and dimmer**



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

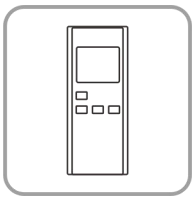




NFC Function

RDM

SetNFC APP



NFC Handheld devices

- Address settings:

①RDM setting address:

Set the address by the RDM device. For detailed operation, please refer to RDM device instruction manual.

②NFC setting address:

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

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.

Have any questions, please contact Zhuhai Shengchang.

Please visit our website or contact us for more information! www.scpower.net.cn/en