

LAS-DMXA Series 800W&1000W

Whole Family: LAS-xxXXX-DMXA-T (xx=12V/24V/36V/48VDC) [800W 1000W]



IP66
SELV

RoHS



Features

Output:	Constant Voltage
Range:	120-277VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 96%
Protections:	Short circuit / Over load / Over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP66.(EU) Full aluminum housing, for dry, damp and wet locations.(US)

Design features:

1. The dimming curve is adjustable.
2. Multiple frequency options.
3. It has lamp temperature detection.
4. Driver parameters can be adjusted by APP.

Dimming function and mode:	DMX dimming
Dimming range:	0.1-100% dimming depth 0.1%
Min load	Min load is 10%
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty
Others:	High power factor PF>0.95, flicker-free



Specification

Model		LAS-12800-DMXA-T	LAS-241K0-DMXA-T	LAS-361K0-DMXA-T	LAS-481K0-DMXA-T
Certificate		UL / SELV / RoHS / Reach			
Output	DC Voltage	12V	24V	36V	48V
	Voltage Tolerance	±4%	±2%	±2%	±2%
	Voltage Regulation	≤0.5%	≤0.5%	≤0.5%	≤0.5%
	Rated current	66.67A	41.67A	27.78A	20.83A
	Rated power	800W@120-277VAC	800W@120VAC	1000W@230/277VAC	
	Load Regulation	±1%	±1%	±1%	±1%
Input	Voltage Range	120-277VAC			
	Frequency Range	50/60Hz			
	Power Factor (Typ.) @ full load	>0.95			
	THD (Typ.) @ full load	≤5%@120VAC	≤10%@230VAC	≤10%@277VAC	
	Efficiency(Typ.) @ full load	≥93%@120VAC	≥93%@120VAC	≥93%@120VAC	≥93%@120VAC
		≥94%@230VAC	≥95.0%@230VAC	≥95.5%@230VAC	≥95.5%@230VAC
		≥94.5%@277VAC	≥95.5%@277VAC	≥95.5%@277VAC	≥95.5%@277VAC
	AC Current (Max.)	8A@800W	5.5A@1000W		
Inrush Current (Typ.)	39.1A , 296us @50%Ipeak 120VAC 60.6A,1.05ms@50%Ipeak230VAC 87.9A , 1.63ms @50%Ipeak 277VAC				
Leakage current	<0.5mA				
Protection	Short Circuit	Shut down o/p voltage, recovers automatically after fault conditionis removed.			
	Over Load	105%~120% Hiccup mode, recovers automatically after fault conditionis removed.			
Environment	Working TEMP.	-40~+50°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°Ctα)			
	Vibration	10~500Hz,5G 12minutes/cycle, X Y Z axis 72minutes each			
Safety & EMC	Safety standards	EN61347-1; EN61347-2-13 UL8750; CAN/CSA-C22.2No.250.13			
	Withstand voltage	I/P-O/P:3.75LASAC	I/P-FG:1.88LASAC	O/P-FG:0.5LASAC(EU)	
	Isolation resistance	I/P-O/P:1.88LASAC I/P-FG:1.88LASAC O/P-FG:0.5LASAC(US)			
	EMC Immunity	I/P-O/P:100MΩ/500VDC/25°C/70%RH EN61547; EN61000-4-2,3,4,5,6,11 FCC/ICES do not request this test.			
	EMC Emission	EN55015; EN61000-3-2,3 FCC Part 15 Subpart B			
	Surge Immunity Test	AC Power Line : Differential Mode4LAS,Common Mode 6LAS			
Others	Net Weight	3.59KG			
	Dimension	332.6*114*53.3mm(L*W*H)			
	Packing	420*305*158mm 5pcs/CTN			



DMX Dimmable LED Driver - Constant Voltage Output - LAS-DMXA Series 800W&1000W

Notes	<ol style="list-style-type: none"> 1. Unless otherwise specified, all specifications are measured at 120V input, rated load, and 25°C ambient temperature. 2. Default states: Output voltage is DC Rate Voltage. 3. LED driver Meets the harmonic emissions requirements of ANSI C82.77-10.
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MCB recommendation

When the input voltage is 120Vac, the number of LED Driver matched by circuit breakers is as follows:		
MCB Type	Level	The number of LED Driver
B type	13A	1
	16A	1
	20A	2
	25A	2
	32A	3
When the input voltage is 277Vac, the number of LED Driver matched by circuit breakers is as follows:		
MCB Type	Level	The number of LED Driver
B type	13A	
	16A	
	20A	
	25A	
	32A	

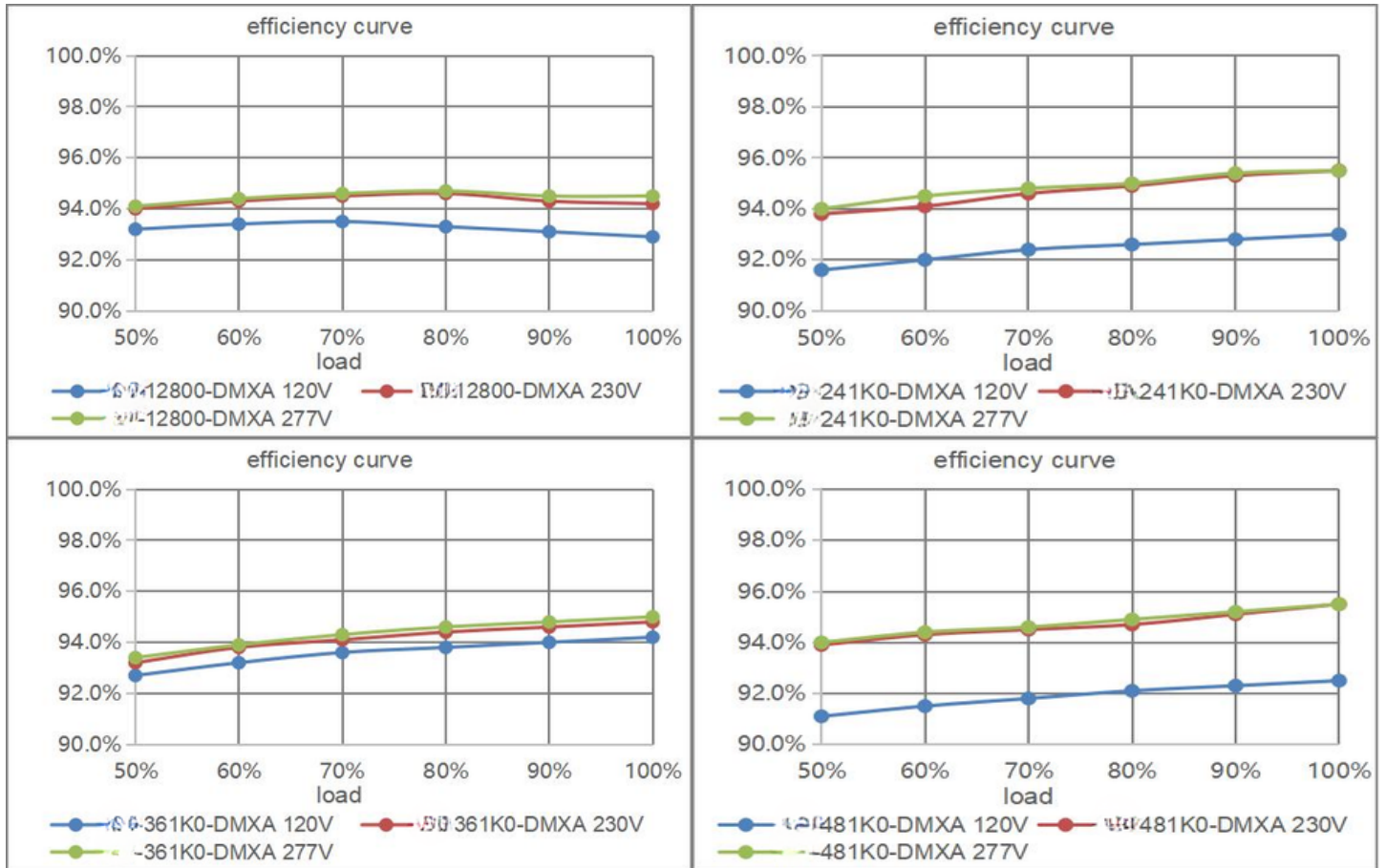
When the input voltage is 120Vac, the number of LED Driver matched by circuit breakers is as follows:		
MCB Type	Level	The number of LED Driver
C type	13A	1
	16A	1
	20A	2
	25A	2
	32A	3
When the input voltage is 277Vac, the number of LED Driver matched by circuit breakers is as follows:		
MCB Type	Level	The number of LED Driver
C type	13A	1
	16A	1
	20A	1
	25A	2
	32A	2

Note:

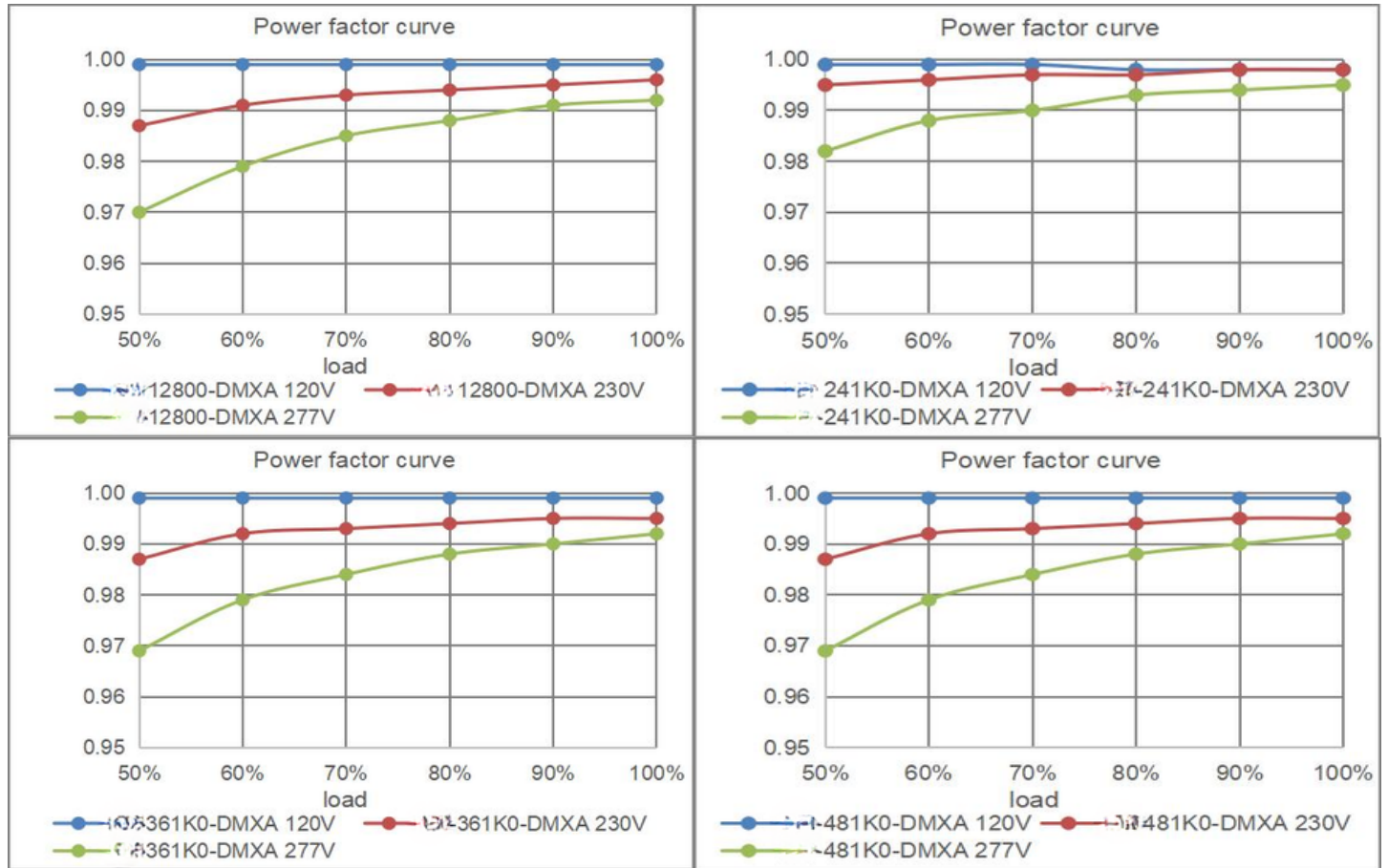
1. The above quantities of the led drivers connected on the Type C is recommended base on the maximum ambient temperature is 50 °C
2. The breaker should be selected according to the input rated voltage, input rated current, ambient temperature, and trip characteristic curve.



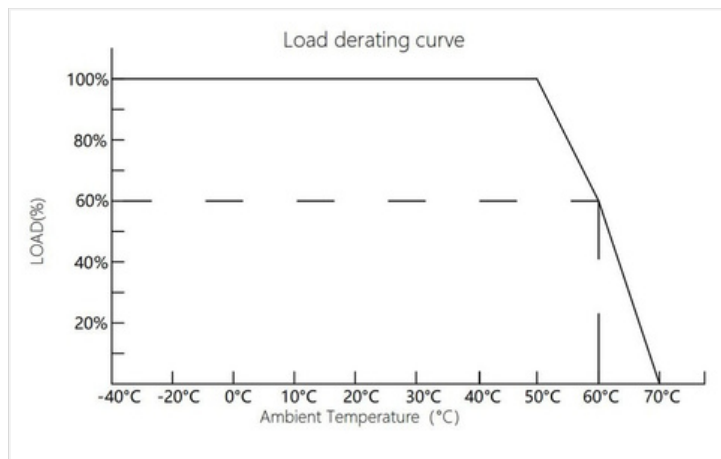
Efficiency Curve (efficiency vs output load)



Power factor curve(Power factor vs output load)



Derating Curve (output load vs TEMP.)

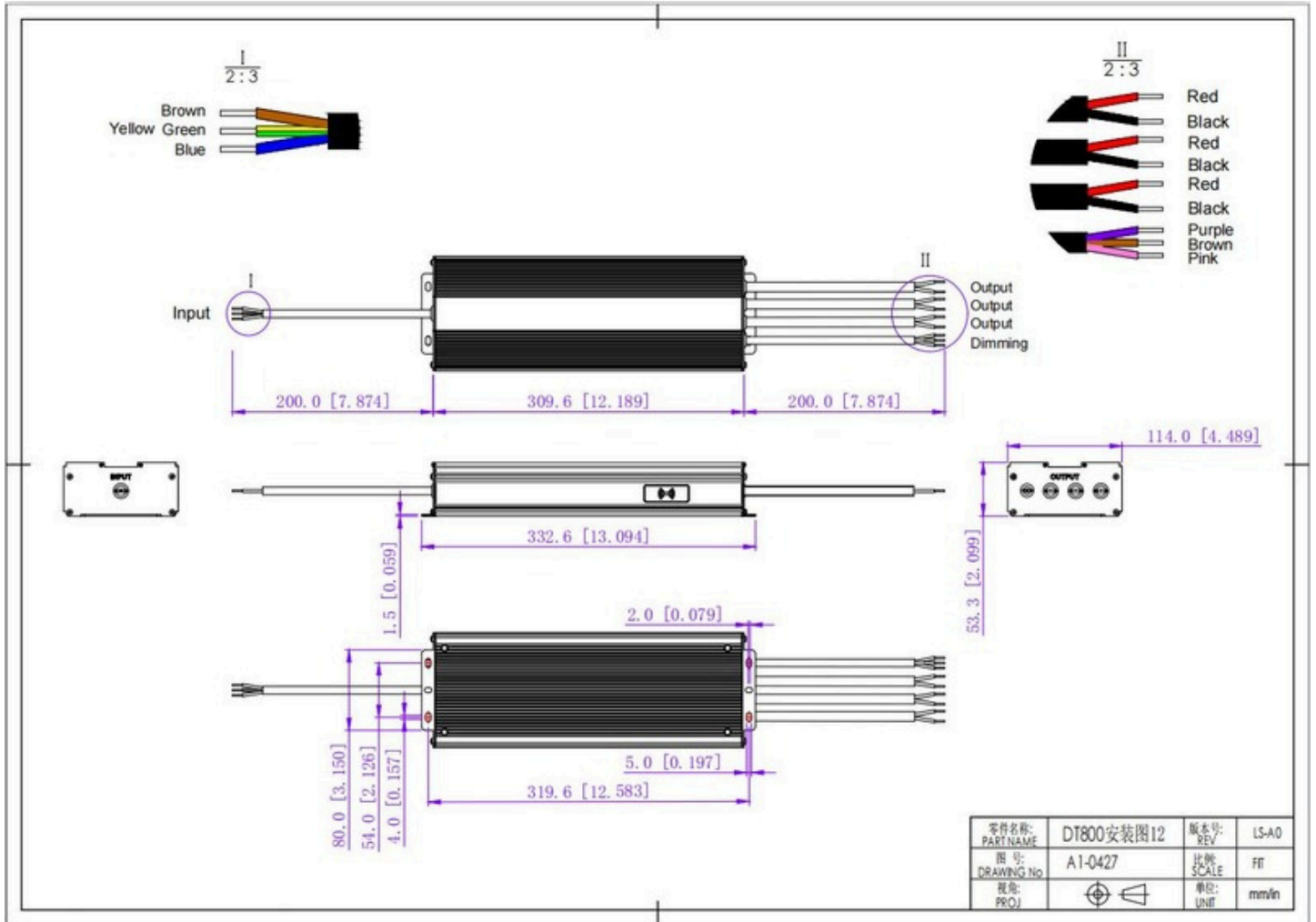


1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. The output current of the LED driver should be selected according to the rated current of the lamp and the ambient temperature. Normally, we recommend the power supply to reserve a certain amount of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

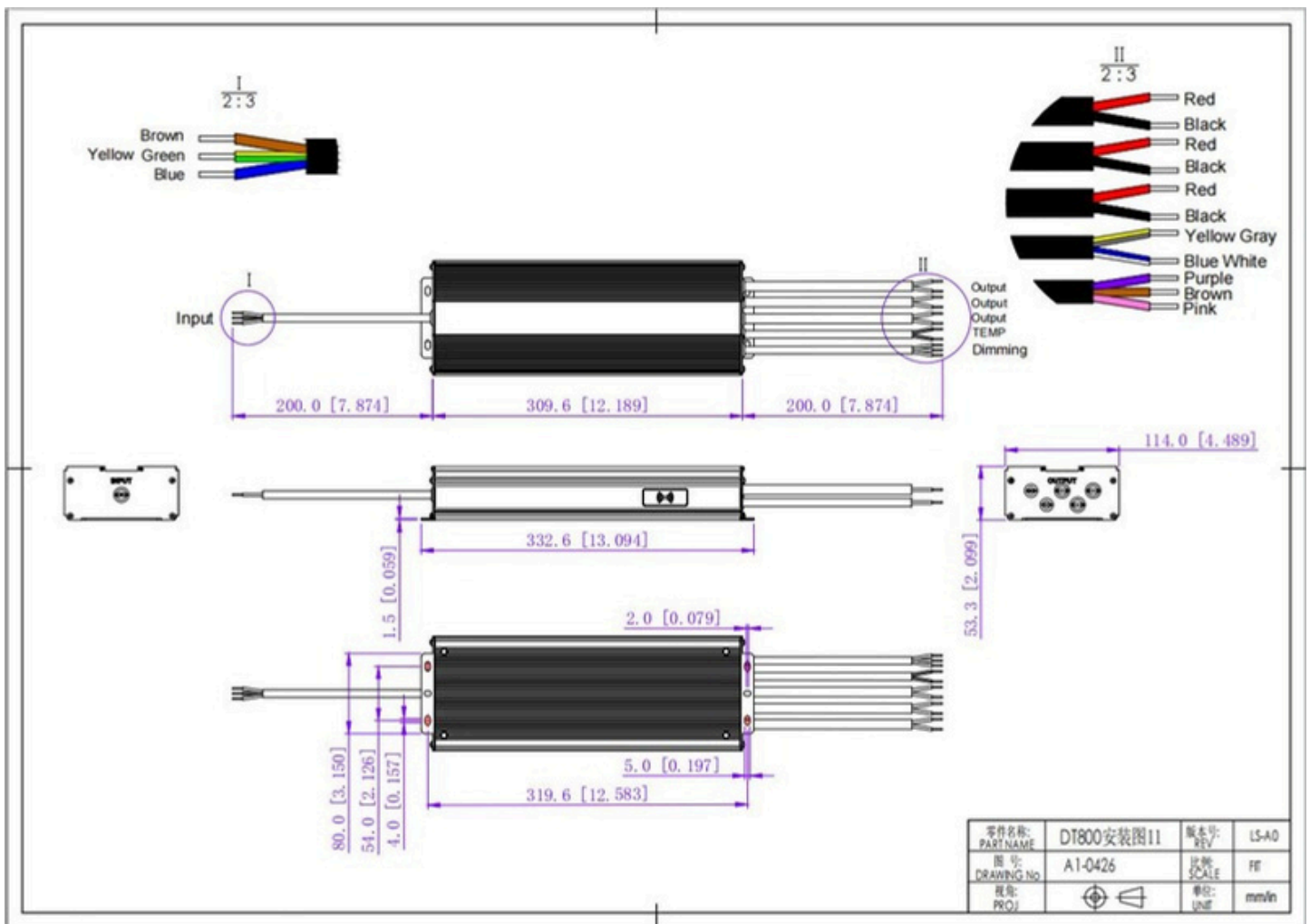


Mechanical Specification

12V Version



DMX Dimmable LED Driver - Constant Voltage Output - LAS-DMXA Series 800W&1000W



12V Version

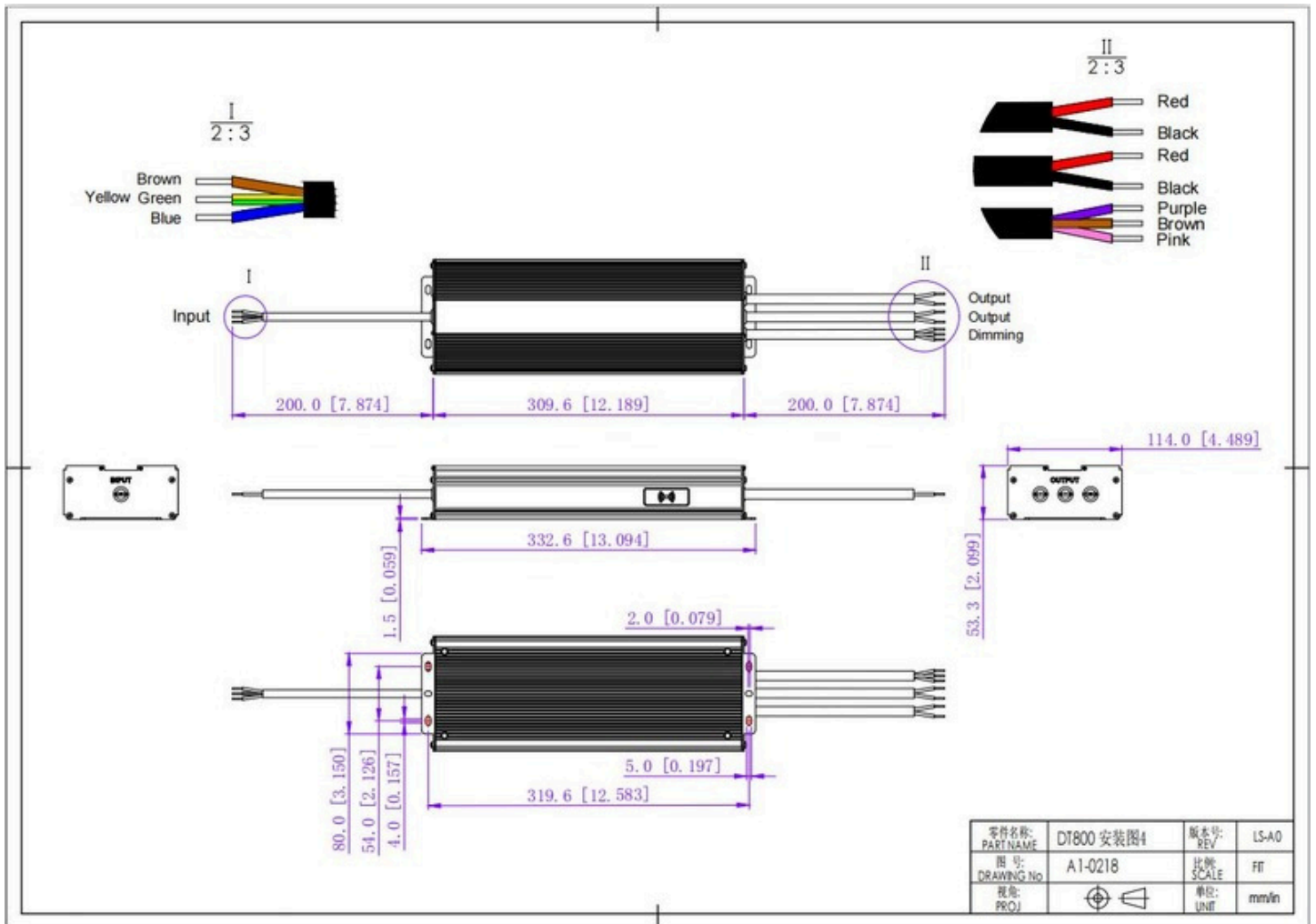
Global wire gauge

DT800

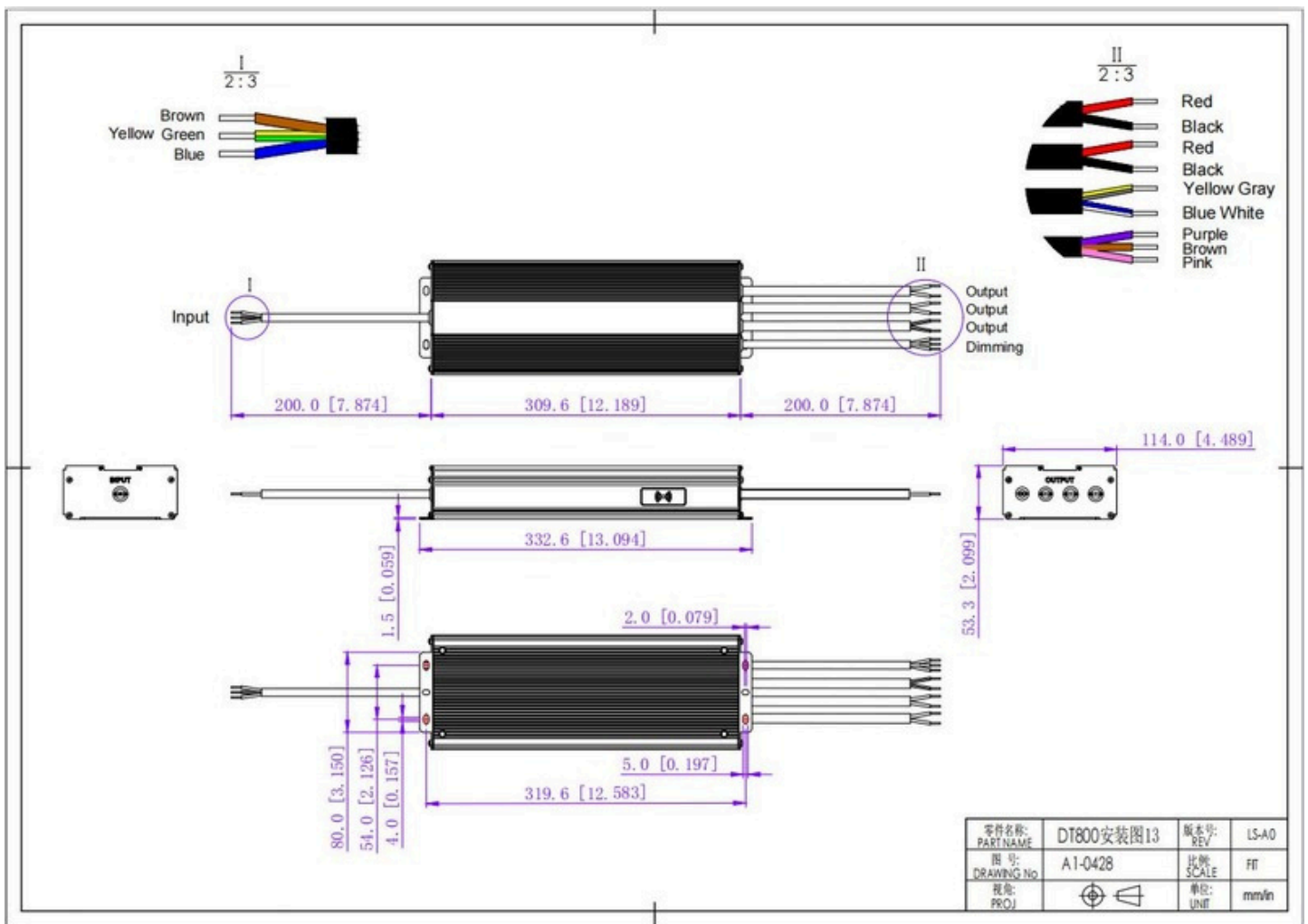
Input wire	Brown(L) Blue(N) Yellow Green(G) (3*17AWG/3*1.026mm ²)*1
Output wire (12V)	Red(V+) Black(V-) (2*12AWG/2*3.31mm ²)*3
Dimming wire	Purple(DMX+) Brown(DMX-) Pink(GND) (3*18AWG/3*0.823mm ²)*1
External temperature wire	Yellow gray(TEMP+) Blue white(TEMP-) (2*18AWG/2*0.823mm ²)*1
Remarks:	



24V 36V 48V Version



DMX Dimmable LED Driver - Constant Voltage Output - LAS-DMXA Series 800W&1000W



24V 36V 48V Version

Global wire gauge

DT800

Input wire	Brown (L) Blue(N) Yellow-green(G) (3*17AWG/3*1.026mm ²)*1
Output wire (24V)	Red(V+) Black(V-) (2*12AWG/2*3.31mm ²)*2
Output wire (36V 48V)	Red(V+) Black(V-) (2*14AWG/2*2.075mm ²)*2
Dimming wire	Purple(DMX+) Brown(DMX-) Pink(GND) (3*18AWG/3*0.823mm ²)*1
External temperature wire	Yellow gray(TEMP+) Blue white(TEMP-)(2*18AWG/2*0.823mm ²)*1
Remarks:	

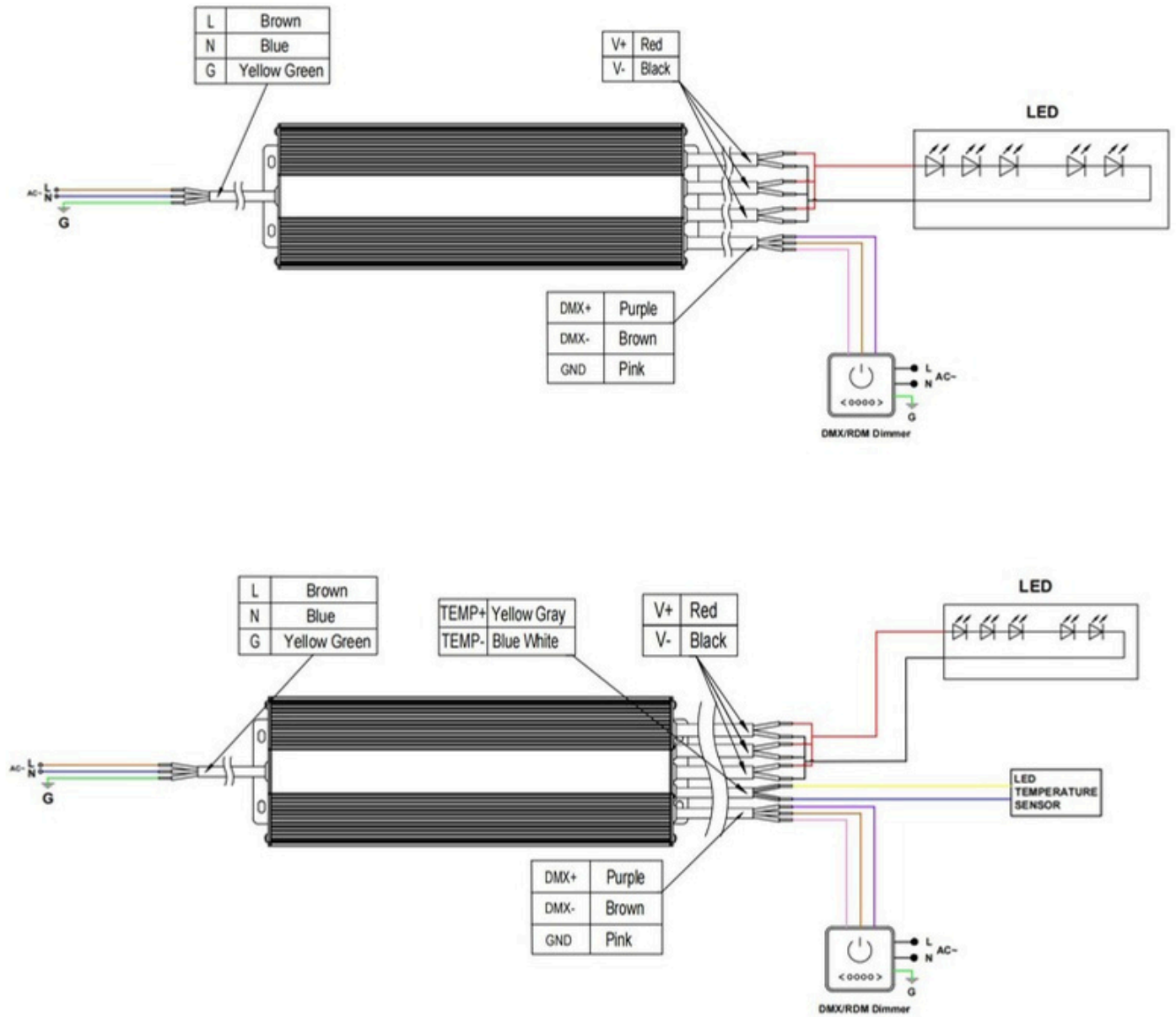
Warm tip:

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



Connecting Diagram

12V Version

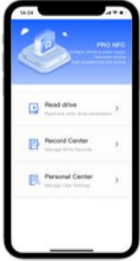


Note:

1. When the internal DALI bus power is turned on, no external bus power is required.
2. The model name LAS-XXXX-DMXA-T means that there is no auxiliary power supply but there is a lamp temperature detection, so the LED driver has no auxiliary power wiring.



NFC function



ProNFC APP



NFC Handheld devices

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	12V	12.11V	12.22V	12.33V	12.44V	12.56V	12.67V	12.78V	12.89V	13V
24V	24.0V	24.2V	24.3 V	24.5V	24.7V	24.8V	25.0V	25.2V	25.3 V	25.5V
36V	36V	36.22V	36.44V	36.67V	36.89V	37.11V	37.33V	37.56V	37.78V	38V
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.

For detailed operation, please refer to ProNFC app manual or NFC-RW manual.

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.
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

