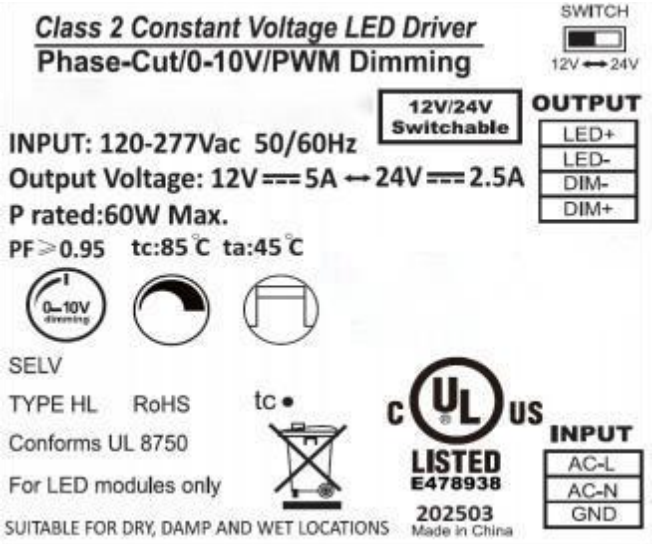
Item No。WP0060

cYS Class2 SELV TYPEHL

Wei's - l.e.d ®



Features

Output:	Constant Voltage(12Vdc to 24Vdc switchable)
Range:	120-277VAC
PFC design:	Built-inactive PFC function
Efficiency:	Up to 85%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof Performance:	For dry, damp, wet locations
Dimming function:	Phase dimming: work with forward phase, MLV and Reverse phase, ELV, TRIAC dimmers. 0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
Dimming Range:	0-100%
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty

Specification

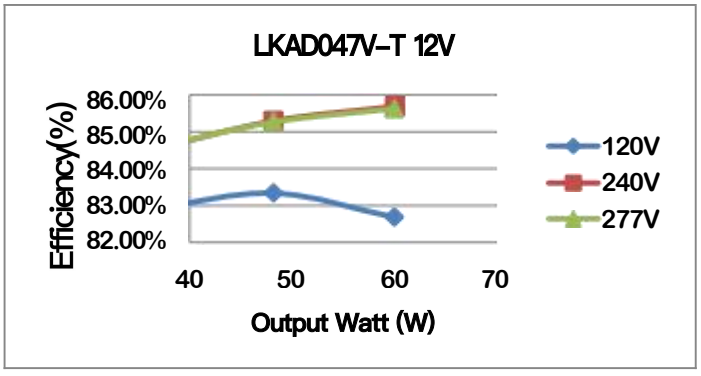
Model:		**LKAD047V-T 12V**	**LKAD047V-T 24V**	
Certificate		UL,CUL		
Output	DC Voltage	12V	24V	
	Voltage Tolerance	±0.5V		
	Voltage Regulation	±0.5%		
	Rated current	5A	2.5A	
	Rated power	60W		
	Load Regulation	±2%	±1%	
Input	Voltage Range	120-277VAC		
	Frequency Range	50/60hz		
	Power Factor(Typ.) @full load	0.99@120VAC 0.98@277VAC	0.99@120VAC 0.98@277VAC	
	THD(Typ.) @ full load	<15%@120VAC & 277VAC		
	Efficiency(Typ.) @ full load	⩾82.70%@120VAC ⩾85.60%@277VAC	⩾84.10%@120VAC ⩾85.90%@277VAC	
	AC Current (Max.)	0.58A		
	Inrush Current (Typ.)	15A, 50%, 1.4ms @120VAC	65A, 50%, 1.4ms @277VAC	
	Leakage current	<0.5mA		
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition removed		
	Over Load	⩽120% constant current limiting, auto-recovery after fault condition removed		
	Over temperature	100℃±10℃ shutdown o/p voltage, automatically recover after cooling		
Environment	Working TEMP.	-40~+60℃ (see below derating curve)		
	Working Humidity	20 - 95%RH non-condensing		
	Storage TEM.,Humidity	-40 - +80℃,10 - 95% RH non-condensing		
	TEMP.coefficient	±0.03%/℃(0 - 50℃)		
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min. each along X,Y,Z axes		
Safety & EMC	Safety standards	UL8750 , CAN/CSA-C22.2 No.250.13		
	Withstand voltage	I/P-O/P: 1.8KVAC I/P-FG: 1.8KVAC O/P-FG1.8KVAC		
	Isolation resistance	I/P-O/P: 100MΩ/ 500VDC/ 25℃/ 70% RH		
	EMC Emission	FCC 47 CFR Part 15 ,Subpart B		
Others	Net Weight			
	Dimension	160*75*34mm(L*W*H)		
	Packing	1 pc in 1 inner box		
Notes	**1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25℃of ambient temperature.** **2. Tolerance: includes setup tolerance and load regulation.**			

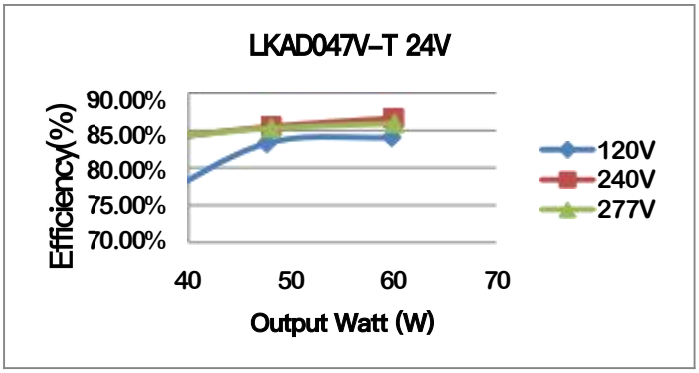
Electrical Characteristics

Model: LKAD047V-T 12V							
Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
120V	607.90	72.57	0.990	12.00	5000	60.00	82.68%
	474.70	57.84	0.990	12.05	4000	48.20	83.33%
	359.40	43.78	0.990	12.10	3000	36.30	82.91%
240V	290.10	70.08	0.990	12.01	5000	60.05	85.69%
	234.80	56.51	0.980	12.05	4000	48.20	85.29%
	179.20	42.95	0.980	12.10	3000	36.30	84.52%
277V	256.60	70.07	0.980	12.00	5000	60.00	85.63%
	207.90	56.53	0.980	12.05	4000	48.20	85.26%
	159.30	42.93	0.970	12.10	3000	36.30	84.56%

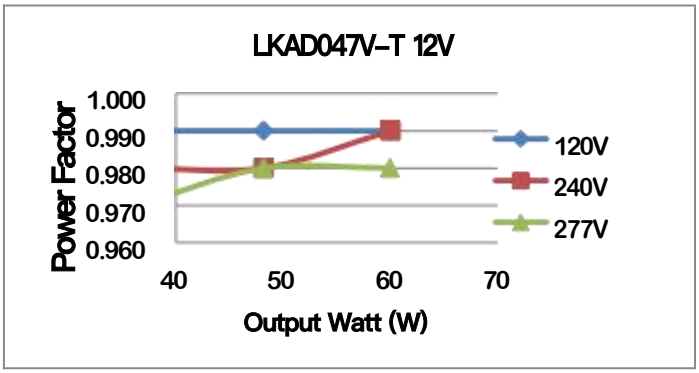
Model: LKAD047V-T 24V							
Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
120V	592.00	71.12	0.990	21.01	2500	59.80	84.08%
	468.40	57.18	0.990	24.04	2000	47.62	83.28%
	390.50	47.57	0.990	24.06	1650	35.73	75.11%
240V	287.00	69.28	0.990	24.01	2500	60.03	86.64%
	233.40	56.18	0.980	24.03	2000	48.06	85.55%
	196.30	47.12	0.980	24.05	1650	39.68	84.22%
277V	256.10	69.90	0.980	24.03	2500	60.08	85.94%
	207.40	56.33	0.980	24.03	2000	48.06	85.32%
	174.40	47.08	0.976	24.05	1650	39.68	84.29%

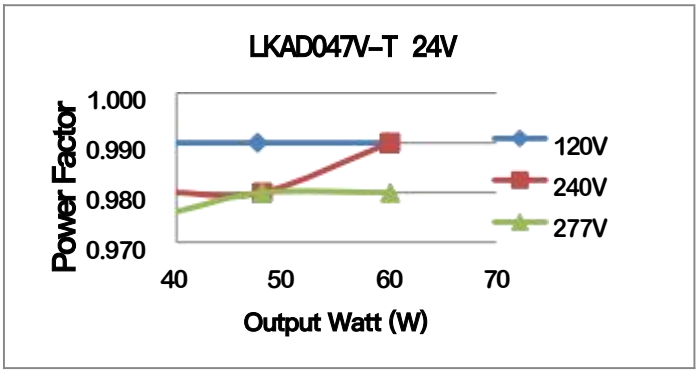
Efficiency Curve (efficiency vs ouput watt)





Power Factor Curve





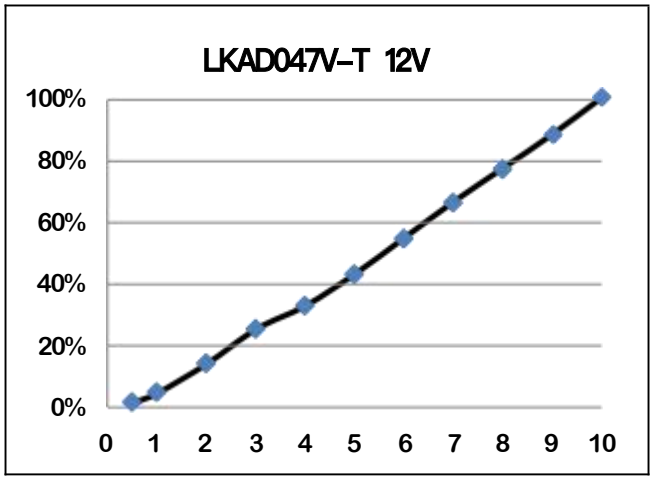
Compatibility Testing for Phase Dimmer

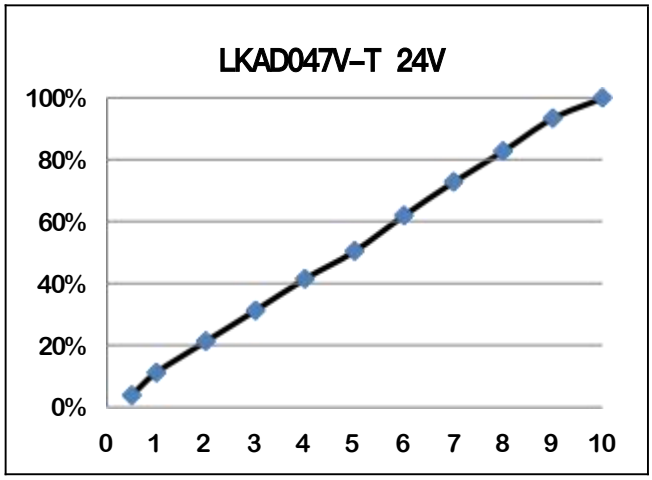
Test by US Standard 120V dimmers

Model: LKAD047V-T 12V				
NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	Lutron SB-1 600W	11.27	72.86	15.47%
2	LC211	12.14	71.72	16.93%
3	Lutron DVCL-253P-WH	6.73	69.66	9.66%
4	TLC-0005	5.33	65.30	8.16%
5	PEC-002	5.16	64.99	7.94%
6	TLC-0003	5.69	64.63	8.80%
7	LEVLTON 150W	8.42	57.56	14.63%
8	LEVLTON DSL06	4.77	65.33	7.30%
9	Lutron Scl-153P	4.22	60.77	6.94%

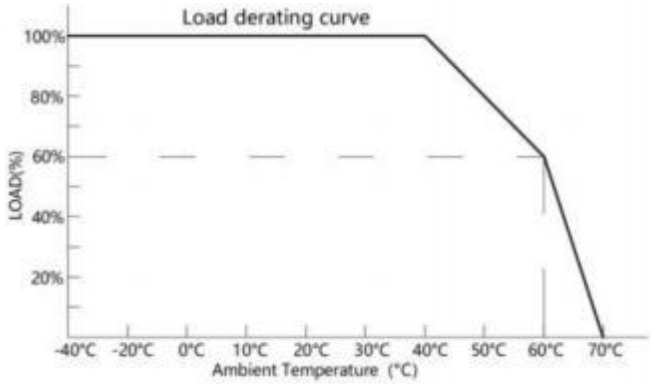
Model: LKAD047V-T 24V				
NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	Lutron SB-1 600W	10.60	60.11	17.63%
2	LC211	1.32	58.70	2.25%
3	Lutron DVCL-253P-WH	3.34	60.23	5.55%
4	TLC-0005	6.33	55.40	11.43%
5	PEC-002	5.28	54.05	9.77%
6	TLC-0003	5.70	53.99	10.56%
7	LEVLTON 150W	4.30	56.30	7.64%
8	LEVLTON DSL06	3.43	59.76	5.74%
9	Lutron Scl-153P	5.33	60.23	8.85%

0-10V Dimming Curve

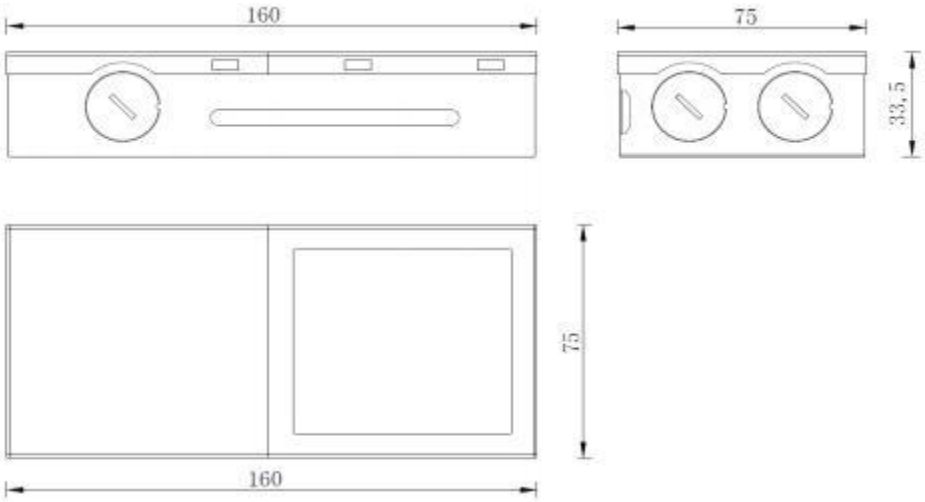




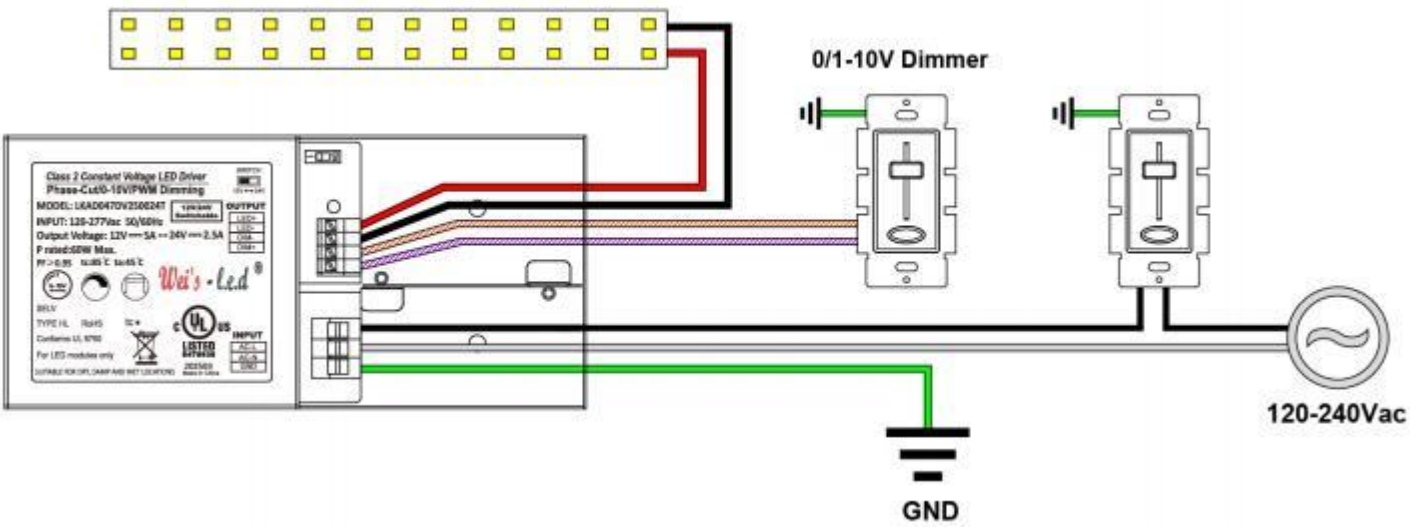
Derating Curve (output load vs TEMP.)



Installation Dimension



Wiring Diagram



1. Input cable 3*18AWG, the Green cable to GND, Black cable to L, and White cable to N of Mains AC.
2. Output cable 2*18AWG, Red cable (+) to LED Positive side (+), Black cable (-) to LED Negative side (-).
3. Dimming cable 2*22AWG, Purple cable DIM (+) to 0/1-10V dimmer signal(+), Pink cable DIM (-) to 0/1-10V dimmer signal (-).
4. Please DO NOT connect "DIM-" to "LED-", "DIM+" to " LED+", or other incorrect connection.
5. Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged

Dimming Operation

This driver can dimming in two ways at the same time, you must be assured that LED lighting is up to the max. Brightness then you could operate with the other dimming.

1. TRIAC/Phase cut dimming

- The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
- Working with forward phase, MLV and Reverse phase , ELV, TRIAC dimmers or light system.
- Min. loading is about 10%
- Please try to use dimmers with power at least 1.5 times as the output power of the driver.

2. 0-10/ 1-10V/ 10V PWM/ Potentiometer dimming

Working well with most EU and US brands of 0/1-10V dimmers, 10V PWM dimmers or dimming system as well as potentiometer dimming system.

Notices

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.

Item No . WP0100 (12Vdc to 24Vdc switchable)

Features

Output:	Constant Voltage
Range:	120-277VAC Input, Output 12Vdc / 24Vdc switchable
PFC design:	Built-inactive PFC function
Efficiency:	Up to 88%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof Performance:	For dry, damp, wet locations
Dimming function:	Phase dimming: work with forward phase, MLV and Reverse phase, ELV, TRIAC dimmers. 0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
Dimming Range:	0-100%
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty

Specification

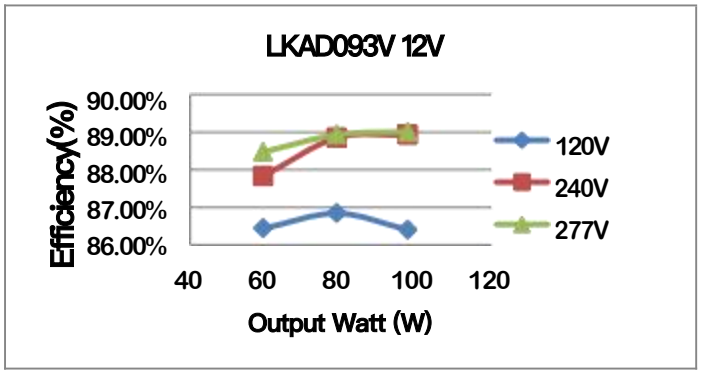
Model:		**LKAD093V 12V**	**LKAD093DV 24V**	
Certificate		UL,CUL		
Output	DC Voltage	12V	24V	
	Voltage Tolerance	±0.5V		
	Voltage Regulation	±0.5%		
	Rated current	8.25A	4.25A	
	Rated power	100W	100W	
	Load Regulation	±1%	±1%	
Input	Voltage Range	120-277VAC		
	Frequency Range	50/60hz		
	Power Factor(Typ.) @full load	0.99@120VAC 0.97@277VAC	0.99@120VAC 0.97@277VAC	
	THD(Typ.) @ full load	<15%@120VAC & 277VAC		
	Efficiency(Typ.) @ full load	⩾87%@120VAC ⩾89%@277VAC	⩾85%@120VAC ⩾87%@277VAC	
	AC Current (Max.)	0.95A		
	Inrush Current (Typ.)	15A, 50%, 1.4ms @120VAC 65A, 50%, 1.4ms @277VAC		
	Leakage current	<0.5mA		
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition removed		
	Over Load	⩽110% constant current limiting, auto-recovery after fault condition removed		
	Over temperature	100℃±10℃ shutdown o/p voltage, automatically recover after cooling		
Environment	Working TEMP.	-40~+60℃ (see below derating curve)		
	Working Humidity	20 - 95%RH non-condensing		
	Storage TEM.,Humidity	-40 - +80℃,10 - 95% RH non-condensing		
	TEMP.coefficient	±0.03%/℃(0 - 50℃)		
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min. each along X,Y,Z axes		
Safety & EMC	Safety standards	UL8750 , CAN/CSA-C22.2 No.250.13		
	Withstand voltage	I/P-O/P: 1.8KVAC I/P-FG: 1.8KVAC O/P-FG1.8KVAC		
	Isolation resistance	I/P-O/P: 100MΩ/ 500VDC/ 25℃/ 70% RH		
	EMC Emission	FCC 47 CFR Part 15 ,Subpart B		
Others	Net Weight	/		
	Dimension	165*104*40mm(L*W*H)		
	Packing	1pc in 1 inner box		
Notes	**1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25℃of ambient temperature.** **2. Tolerance: includes setup tolerance and load regulation.**			

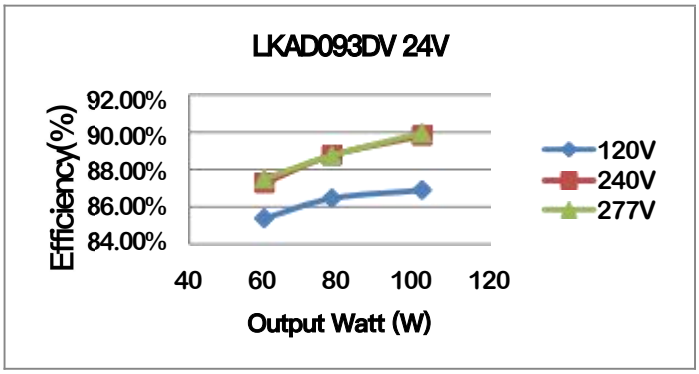
Electrical Characteristics

LKAD093V 12V							
Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
120V	940	113.15	0.990	11.85	8250	97.76	86.40%
	737	90.90	0.990	11.87	6650	78.94	86.84%
	560	68.72	0.990	11.88	5000	59.40	86.44%
240V	470	109.94	0.980	11.85	8250	97.76	88.92%
	380	88.84	0.980	11.87	6650	78.94	88.85%
	290	67.63	0.980	11.88	5000	59.40	87.83%
277V	404	109.83	0.977	11.85	8250	97.76	89.01%
	325	88.76	0.980	11.87	6650	78.94	88.93%
	250	67.14	0.978	11.88	5000	59.40	88.47%

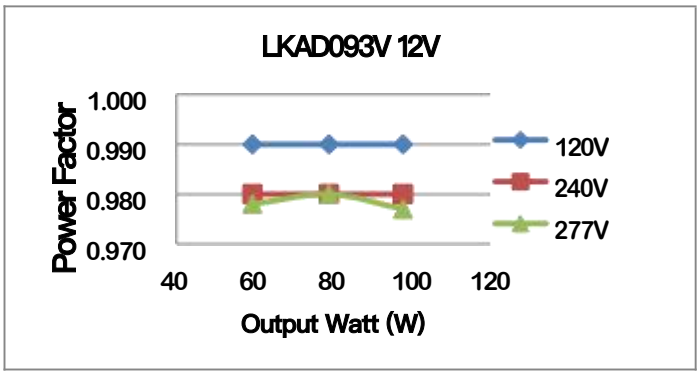
LKAD093DV 24V							
Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
120V	960	117.05	0.990	23.93	4250	101.70	86.89%
	740	90.00	0.990	23.94	3250	77.81	86.45%
	570	70.13	0.990	23.95	2500	59.88	85.38%
240V	480	113.30	0.980	23.94	4250	101.75	89.80%
	377	87.70	0.980	23.95	3250	77.84	88.75%
	290	68.64	0.980	23.96	2500	59.90	87.27%
277V	417	113.10	0.976	23.94	4250	101.75	89.96%
	320	87.70	0.981	23.95	3250	77.84	88.75%
	250	68.43	0.980	23.95	2500	59.88	87.50%

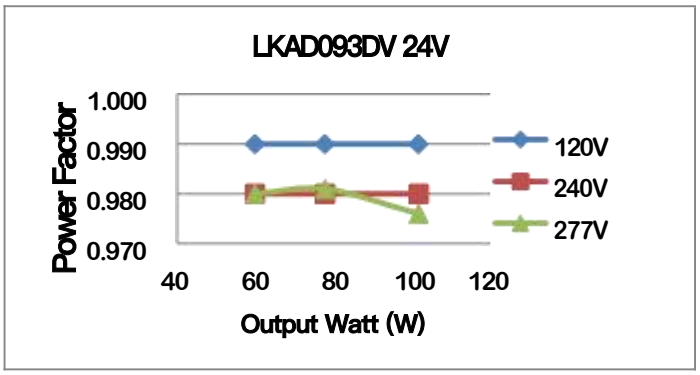
Efficiency Curve (efficiency vs ouput watt)





Power Factor Curve





Compatibility Testing for Phase Dimmer

Test by EU Standard 240V dimmers

LKAD093V 12V

NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	T&J 25-1000W	8.82	98.43	8.96%
2	Lautrupvang DK-275D	15.73	87.55	17.97%
3	JUNON 300W	10.90	103.90	10.49%
4	Nader Cscrnaider	11.42	104.20	10.96%
5	CLIPSAL 500VA	0.15	85.69	0.18%
6	Midea 220V 630W	12.59	104.30	12.07%
7	European-No 1	1.76	104.00	1.69%
8	TCL 630W 220V	0.15	104.30	0.14%
9	SHYUSLC UK-PRD400VA	9.00	85.77	10.49%

LKAD093DV 24V

NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	T&J 25-1000W	19.20	105.60	18.18%
2	Lautrupvang DK-275D	20.00	94.99	21.05%
3	TENGEN V5-TG/G	23.96	105.30	22.75%
4	Nader	19.70	105.50	18.67%
5	CLIPSAL 500VA	0.13	92.90	0.14%
6	Midea 220V 630W	23.00	105.50	21.80%
7	European-No 1	2.22	105.30	2.11%
8	TCL 630W 220V	0.16	105.30	0.15%
9	SHYUSLC UK-PRD400VA	12.00	92.92	12.91%

Test by US Standard 120V dimmers

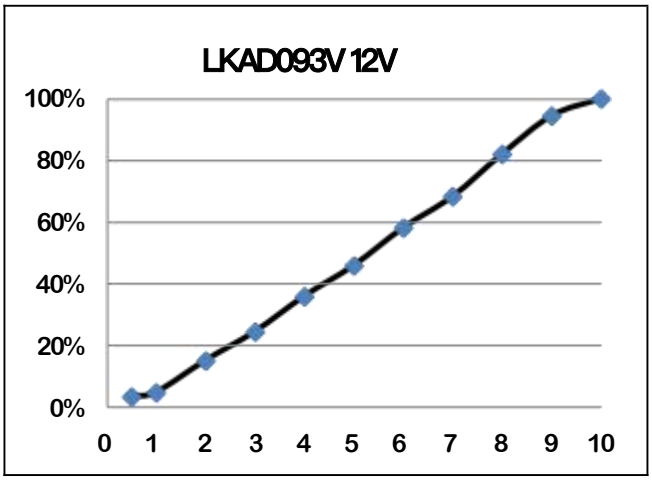
LKAD093V 12V

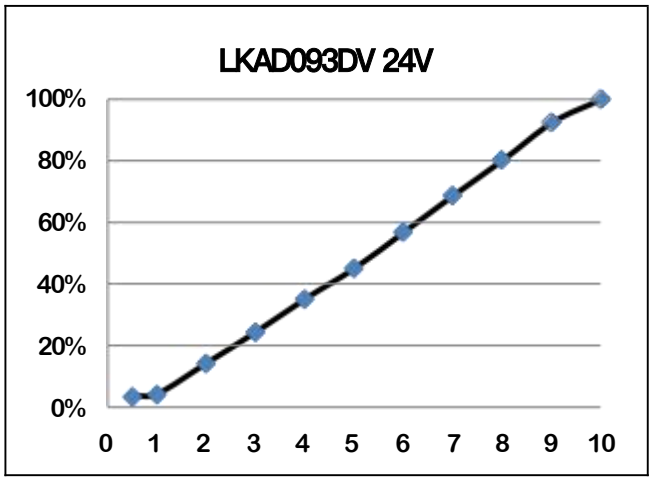
NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	Lutron SB-1 600W	0.13	88.76	0.15%
2	LC211	2.00	83.50	2.40%
3	Lutron DVCL-253P-WH	2.71	99.90	2.71%
4	TLC-0005	2.56	88.70	2.89%
5	PEC-002	2.13	88.90	2.40%
6	LEVLTON 150W	1.54	83.35	1.85%
7	LEVLTON DSL06	10.00	88.95	11.24%
8	Lutron Scl-153P	1.03	79.29	1.30%
9	Lutron SELV-300P	6.07	83.30	7.29%

LKAD093DV 24V

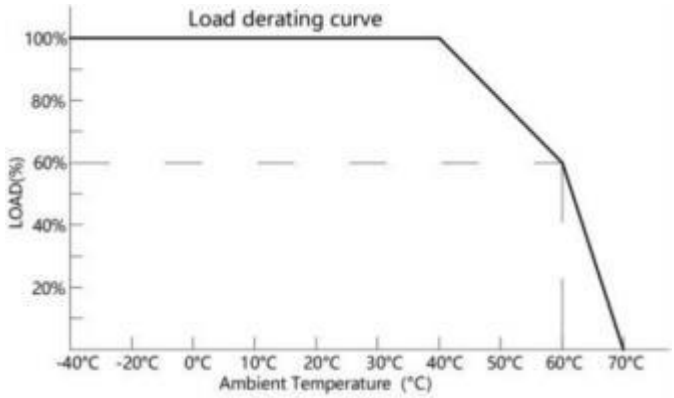
NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	Lutron SB-1 600W	0.13	95.91	0.14%
2	LC211	2.45	90.72	2.70%
3	Lutron TTCL100	0.10	106.20	0.09%
4	TLC-0005	9.00	98.14	9.17%
5	PEC-002	9.02	97.38	9.26%
6	TLC-0003	9.26	96.91	9.56%
7	LEVLTON 150W	2.20	87.99	2.50%
8	LEVLTON DSL06	30.99	106.10	29.21%
9	Lutron scl-153P	1.35	84.86	1.59%

0-10V Dimming Curve

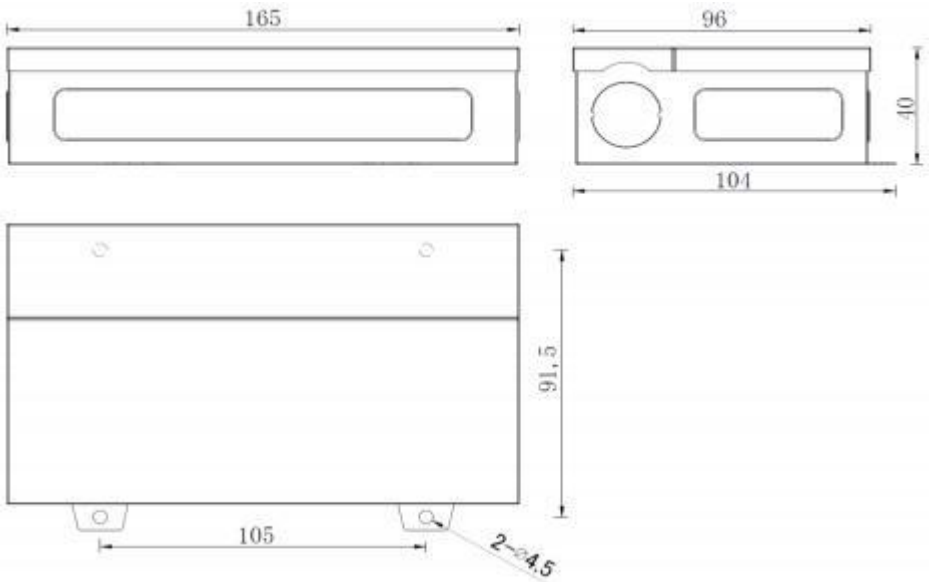




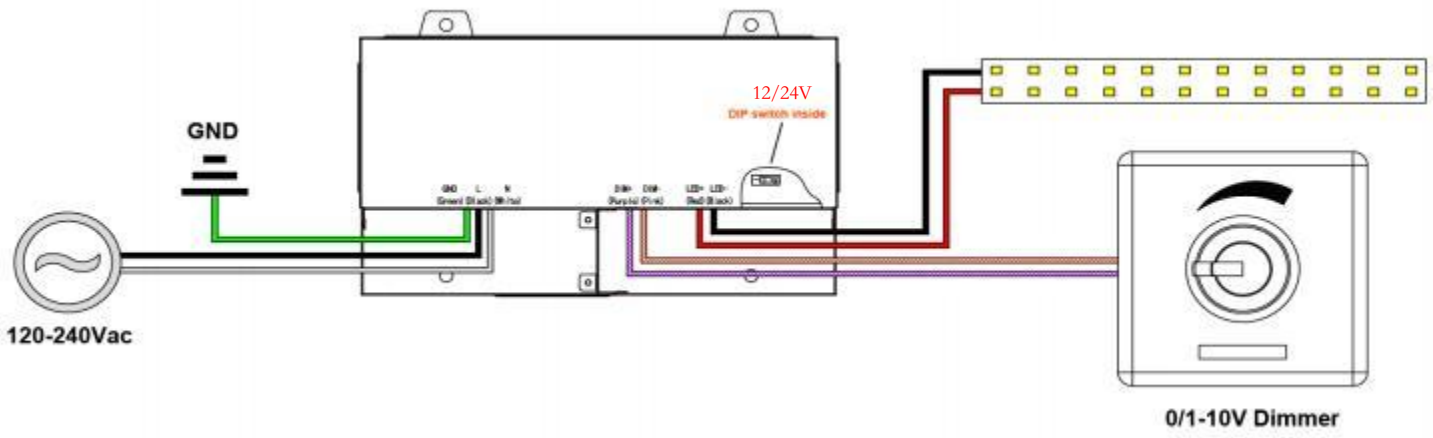
Derating Curve (output load vs TEMP.)



Installation Dimension



Wiring Diagram



1. Input cable 3*18AWG, the Green cable to GND, Black cable to L, and White cable to N of Mains AC.
2. Output cable 2*18AWG, Red cable (+) to LED Positive side (+), Black cable (-) to LED Negative side (-).
3. Dimming cable 2*22AWG, Purple cable DIM (+) to 0/1-10V dimmer signal(+), Pink cable DIM (-) to 0/1-10V dimmer signal (-)
4. Please DO NOT connect "DIM-" to "LED-", "DIM+" to " LED+", or other incorrect connection.
5. Please make sure your connect these correctly otherwise your product will not function correctly and could be damaged

Dimming Operation

This driver can dimming in two ways at the same time, you must be assured that LED lighting is up to

1. TRIAC/ Phase cut dimming

- The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
- Working with forward phase, MLV and Reverse phase , ELV, TRIAC dimmers or light system.
- Min. loading is about 10%
- Please try to use dimmers with power at least 1.5 times as the output power of the driver.

2. 0-10/ 1-10V/ 10V PWM/ Potentiometer dimming

Working well with most EU and US brands of 0/1-10V dimmers, 10V PWM dimmers or dimming system as well as

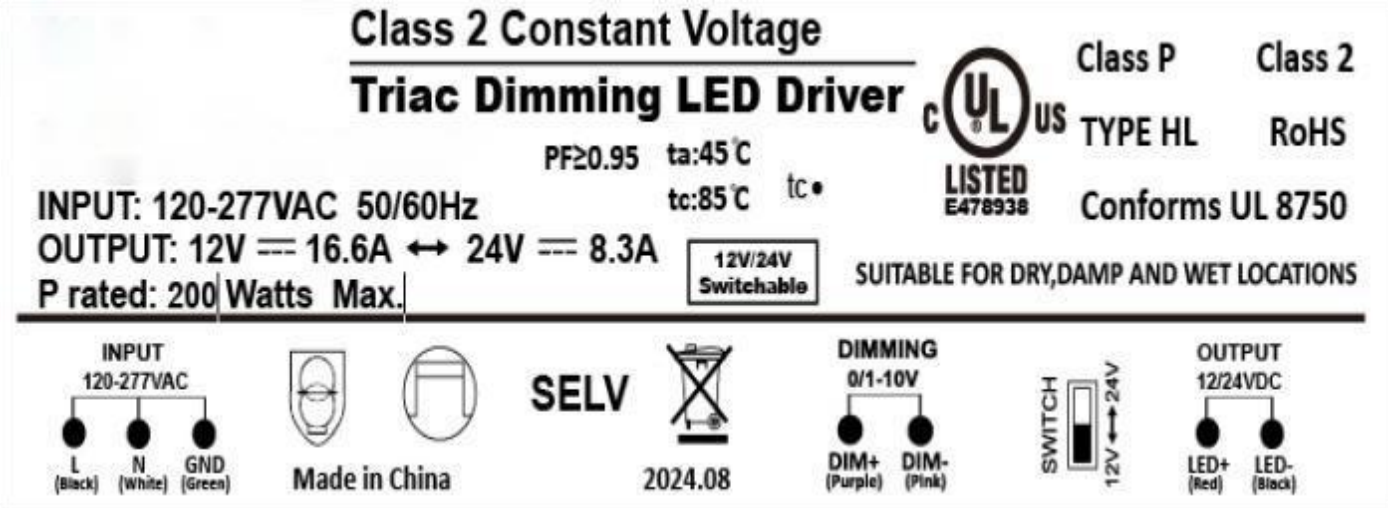
Notices

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.

Item No . WP0200 (12Vdc to 24Vdc switchable)

cYS Class2 SELV TYPE HL

Wei's - l.e.d ®



Features

Output:	Constant Voltage
Range:	120-277VAC Input, Output 12Vdc / 24Vdc switchable
PFC design:	Built-inactive PFC function
Efficiency:	Up to 82%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof Performance:	For dry, damp, wet locations
Dimming function:	Phase dimming: work with forward phase, MLV and Reverse phase, ELV, TRIAC dimmers. 0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
Dimming Range:	0-100%
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty

Specification

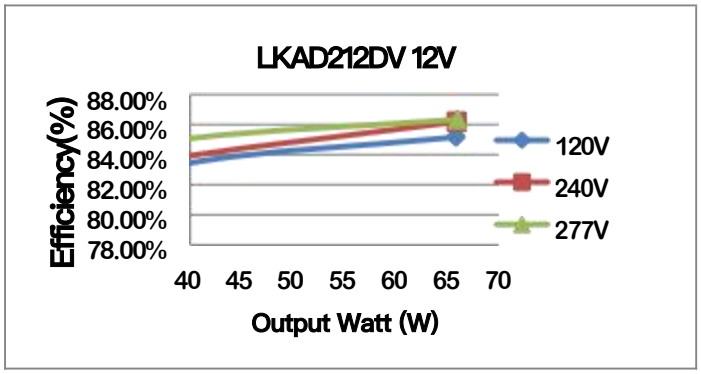
Model:		LKAD212DV 12V	LKAD212DV 24V	
Certificate		UL,CUL		
Output	DC Voltage	12V	24V	
	Voltage Tolerance	±0.5V		
	Voltage Regulation	±0.5%		
	Rated current	5.56A * 3ch	2.77A * 2ch	
	Rated power	200W	200W	
	Load Regulation	±1%	±1%	
Input	Voltage Range	120-277VAC		
	Frequency Range	50/60hz		
	Power Factor(Typ.) @full load	0.999@120VAC * 3ch 0.978@277VAC * 3 ch	0.999@120VAC * 3 ch 0.941@277VAC * 3 ch	
	THD(Typ.) @ full load	<15%@120VAC & 277VAC		
	Efficiency(Typ.) @ full load	⩾85.17%@120VAC ⩾86.34%@277VAC	⩾82.25%@120VAC ⩾83.52%@277VAC	
	AC Current (Max.)	0.72A		
	Inrush Current (Typ.)	15A, 50%, 1.4ms @120VAC 65A, 50%, 1.4ms @277VAC		
	Leakage current	<0.5mA		
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition removed		
	Over Load	⩽110% constant current limiting, auto-recovery after fault condition removed		
	Over temperature	100℃±10℃ shutdown o/p voltage, automatically recover after cooling		
Environment	Working TEMP.	-40~+60℃ (see below derating curve)		
	Working Humidity	20 - 95%RH non-condensing		
	Storage TEM.,Humidity	-40 - +80℃,10 - 95% RH non-condensing		
	TEMP.coefficient	±0.03%/℃(0 - 50℃)		
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min. each along X,Y,Z axes		
Safety & EMC	Safety standards	UL8750 , CAN/CSA-C22.2 No.250.13		
	Withstand voltage	I/P-O/P: 1.8KVAC I/P-FG: 1.8KVAC O/P-FG1.8KVAC		
	Isolation resistance	I/P-O/P: 100MΩ/ 500VDC/ 25℃/ 70% RH		
	EMC Emission	FCC 47 CFR Part 15 ,Subpart B		
Others	Net Weight	1.00-1.06kgs		
	Dimension	210*96*40mm(L*W*H)		
	Packing	1pc in 1 inner box		
Notes	**1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25℃of ambient temperature.** **2. Tolerance: includes setup tolerance and load regulation.**			

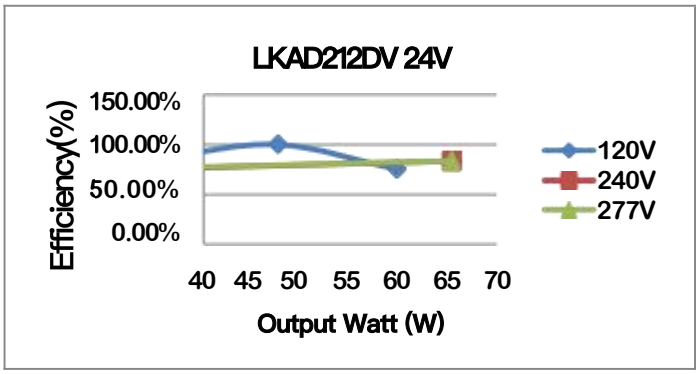
Electrical Characteristics

LKAD212DV 12V							
Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
120V	646. 00	77. 36	0. 999	11. 94	5518	65.88	85.17%
	398. 60	47. 78	0. 997	12. 00	3322	39.86	83.43%
	252. 10	30. 21	0. 993	12. 06	2002	24.14	79.92%
240V	323. 00	76. 51	0. 988	11. 95	5518	65.94	86.18%
	204. 30	47. 50	0. 970	12. 00	3322	39.86	83.92%
	159. 00	29. 46	0. 772	12. 06	2002	24.14	81.96%
277V	282. 00	76. 50	0. 978	11. 97	5518	66.05	86.34%
	204. 10	46. 95	0. 839	12. 02	3323	39.94	85.07%
	164. 40	29. 18	0. 641	12. 06	2003	24.16	82.78%

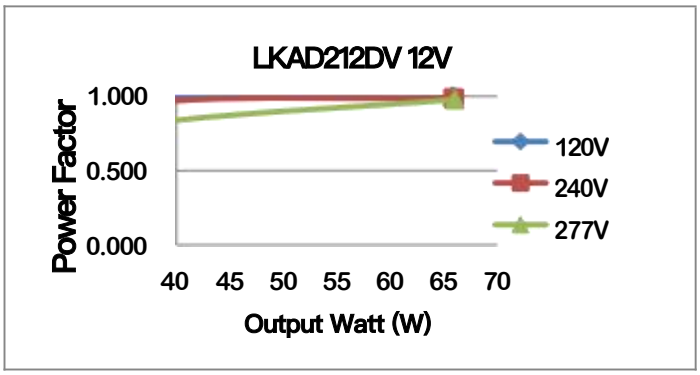
LKAD212DV 24V							
Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
120V	651	79.50	0.999	23.70	2759	59.80	75.22%
	393	47.60	0.990	23.77	1508	47.62	100.04%
	342	40.99	0.990	23.78	1254	35.73	87.17%
240V	327	78.41	0.980	23.70	2759	65.39	83.39%
	177	47.28	0.956	23.77	1508	35.85	75.81%
	298	40.87	0.960	23.78	1255	29.84	73.02%
277V	199	78.29	0.941	23.70	2759	65.39	83.52%
	187	46.77	0.841	23.77	1508	35.85	76.64%
	238	40.27	0.770	23.78	1255	29.84	74.11%

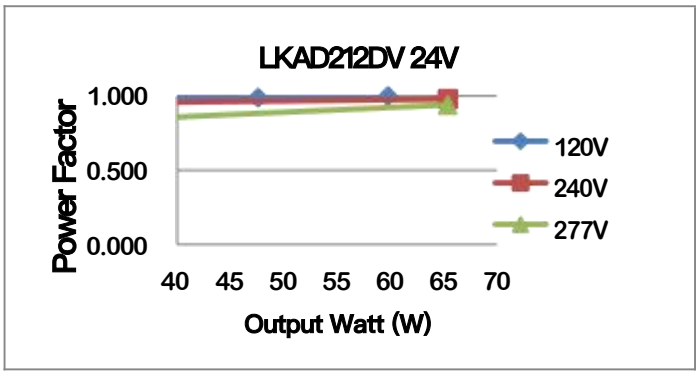
Efficiency Curve (efficiency vs ouput watt)





Power Factor Curve





Compatibility Testing for Phase Dimmer

Test by EU Standard 240V dimmers

Model: LKAD212DV 12V

NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	T&J 25-1000W	18.55	205.40	9.03%
2	Lautrupvang DK-275D	9.06	158.40	5.72%
3	European-No 2	25.50	170.50	14.96%
4	TENGEN V5-TG/G	7.80	182.20	4.28%
5	Junnon	7.61	189.90	4.01%
6	CLIPSAL 500VA	0.18	171.80	0.10%
7	Midea 220V 630W	30.95	203.80	15.19%
8	LTECH	1.26	206.30	0.61%
9	TCL 630W 220V	0.18	204.40	0.09%

Model: LKAD212DV 24V

NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	T&J 25-1000W	21.04	184.10	11.43%
2	Lautrupvang DK-275D	22.25	151.20	14.72%
3	TENGEN V5-TG/G	6.32	168.99	3.74%
4	Nader	25.00	167.00	14.97%
5	CLIPSAL 500VA	16.33	173.00	9.44%
6	Midea 220V 630W	2.67	148.70	1.80%
7	European-No 1	29.29	183.80	15.94%
8	TCL 630W 220V	3.00	183.80	1.63%
9	SHYUSLC UK-PRD400VA	2.67	183.10	1.46%

Test by US Standard 120V dimmers

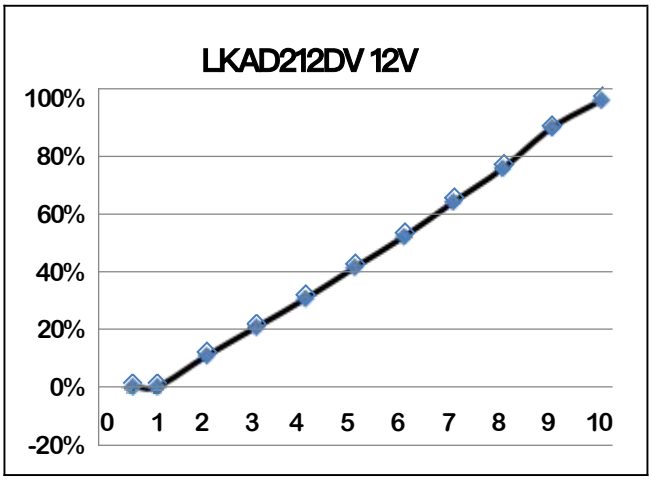
Model: LKAD212DV 12V

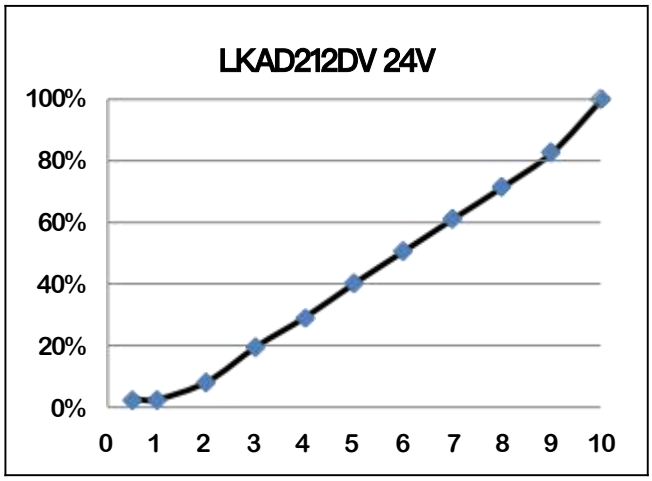
NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	Lutron SB-1 600W	0.41	213	0.19%
2	LC211	0.56	196	0.29%
3	Lutron DVCL-253P-WH	0.44	212	0.21%
4	TLC-0005	1.43	177	0.81%
5	PEC-002	1.31	180	0.73%
6	TLC-0003	1.21	177	0.68%
7	LEVLTON 150W	1.33	176	0.76%
8	LEVLTON DSL06	2.73	179	1.53%
9	Lutron scl-153P	3.21	184	1.75%

Model: LKAD212DV 24V

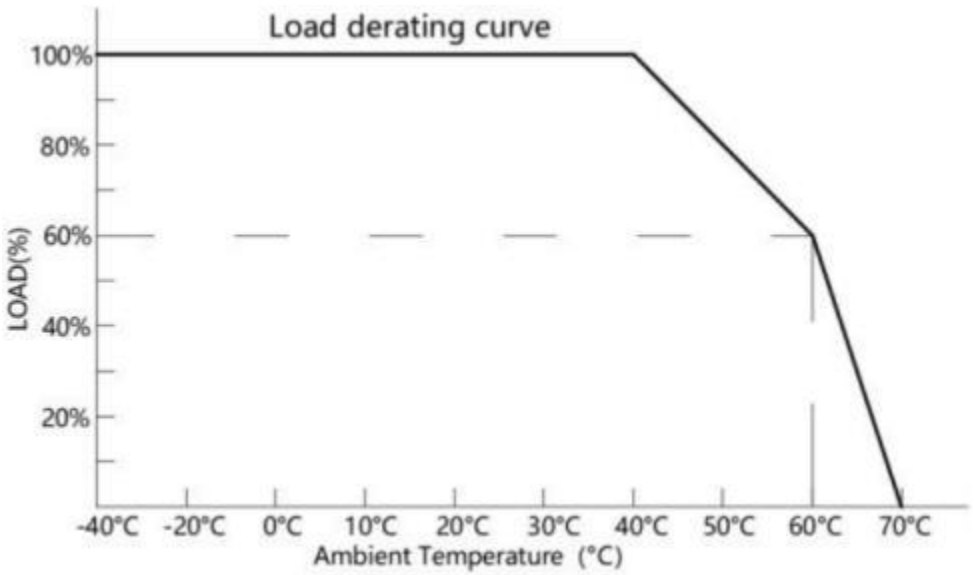
NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	Lutron SB-1 600W	2.83	267.30	1.06%
2	LC211	2.67	273.30	0.98%
3	Lutron TTCL100	7.87	288.20	2.73%
4	TLC-0005	3.21	250.30	1.28%
5	PEC-002	2.99	249.90	1.20%
6	TLC-0003	3.09	248.90	1.24%
7	LEVLTON 150W	6.73	268.30	2.51%
8	PanaSonic Wn3020	7.63	276.70	2.76%
9	Lutron scl-153P	6.51	266.70	2.44%

0-10V Dimming Curve

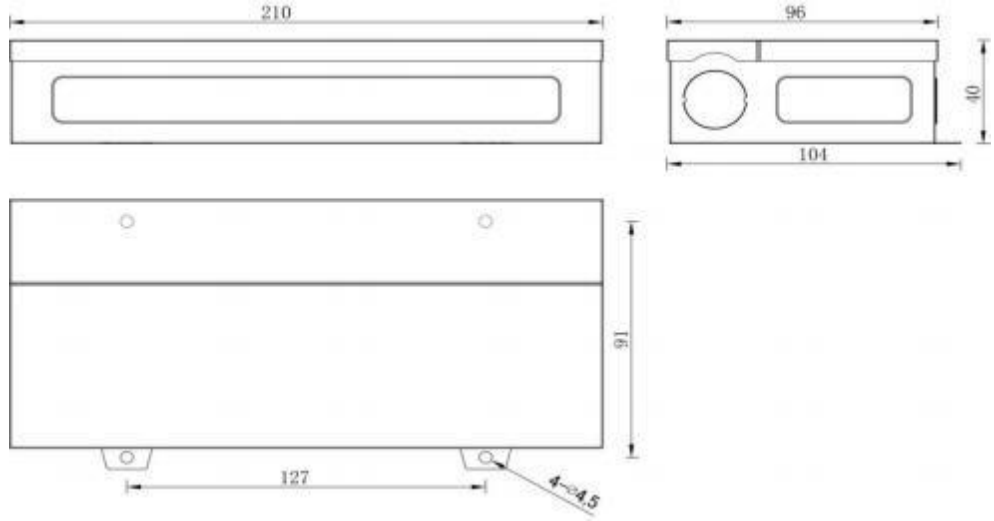




Derating Curve (output load vs TEMP.)

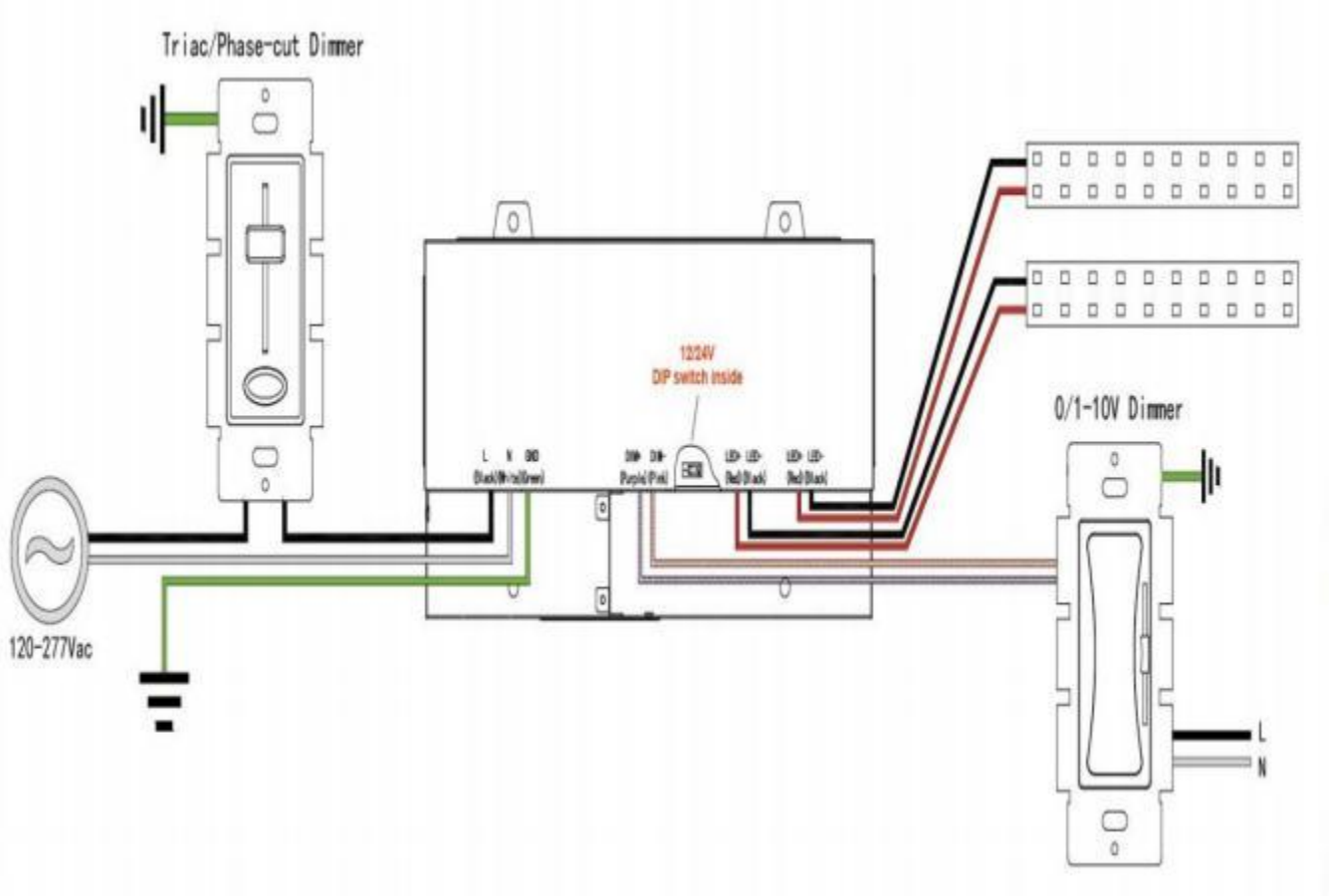


Installation Dimension



Wiring Diagram

LKAD212DV 12V 24V



1. Input cable 3*18AWG, the Green cable to GND, Black cable to L, and White cable to N of Mains AC.
2. Output cable 2*18AWG, Red cable (+) to LED Positive side (+), Black cable (-) to LED Negative side (-).

   Noted: 12V 200W with 3 groups of 2*18AWG output wires to separate the output current.
   24V 200W with 2 groups of 2*18AWG output wires to separate the output current.

3. Dimming cable 2*22AWG, Purple cable DIM (+) to 0/1-10V dimmer signal(+), Pink cable DIM (-) to 0/1-10V dimmer signal (-).

4. Please DO NOT connect "DIM-" to "LED-", "DIM+" to " LED+", or other incorrect connection.

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

Dimming Operation

This driver can dimming in two ways at the same time, you must be assured that LED lighting is up to

1.TRIAC/Phase cut dimming

- **The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.**
- **Working with forward phase, MLV and Reverse phase , ELV, TRIAC dimmers or light system.**
- **Min. loading is about 10%**
- **Please try to use dimmers with power at least 1.5 times as the output power of the driver.**

2. 0-10/ 1-10V/ 10V PWM/ Potentiometer dimming

Working well with most EU and US brands of 0/1-10V dimmers, 10V PWM dimmers or dimming system as well as

Notices

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.

Item No . WP030

cYS Class2 SELV TYPE HL

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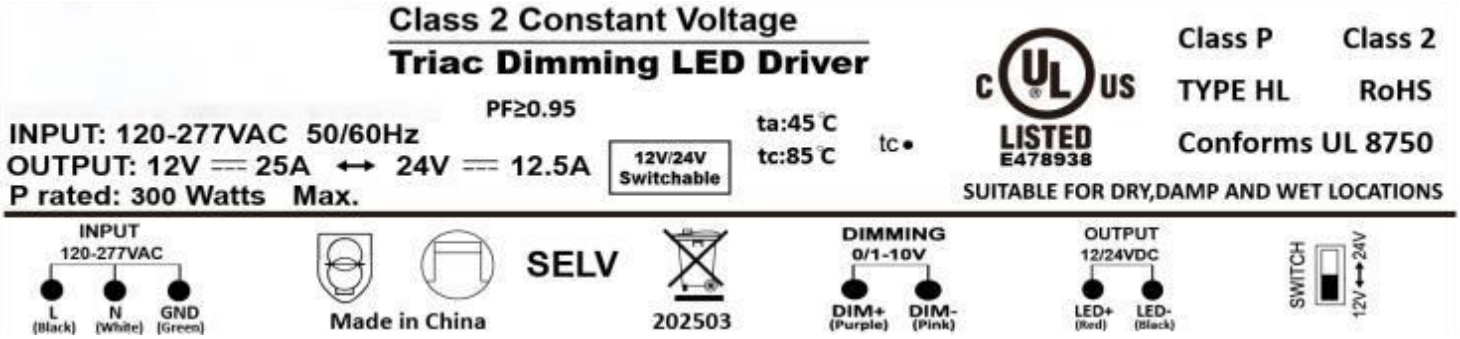


Features

Output:	Constant Voltage (12Vdc & 24Vdc switchable)
Range:	120-277VAC Input
PFC design:	Built-inactive PFC function
Efficiency:	Up to 82%
Protections:	Short circuit/ over load/ over temperature
Heat dissipation:	Cooling by free air convection
Waterproof Performance:	For dry, damp, wet locations
Dimming function:	Phase dimming: work with forward phase, MLV and Reverse phase, ELV, TRIAC dimmers. 0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
Dimming Range:	0-100%
Application:	Suitable for LED lighting and moving sign applications
Warranty:	5 years warranty

Specification

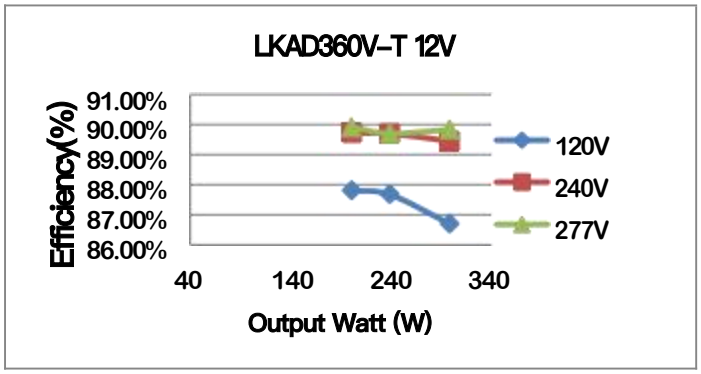
Model:		LKAD360V 12V	LKAD360V 24V	
Certificate		UL,CUL		
Output	DC Voltage	12V	24V	
	Voltage Tolerance	±0.5V		
	Voltage Regulation	±0.5%		
	Rated current	25A	12.5A	
	Rated power	300W	300W	
	Load Regulation	±1%	±1%	
Input	Voltage Range	120-277VAC		
	Frequency Range	50/60hz		
	Power Factor(Typ.) @full load	0.990@120VAC 0.970@277VAC	0.990@120VAC 0.970@277VAC	
	THD(Typ.) @ full load	<15%@120VAC & 277VAC		
	Efficiency(Typ.) @ full load	⩾86.70%@120VAC ⩾89.83%@277VAC	⩾88.73%@120VAC ⩾91.60%@277VAC	
	AC Current (Max.)	0.72A		
	Inrush Current (Typ.)	15A, 50%, 1.4ms @120VAC 65A, 50%, 1.4ms @277VAC		
	Leakage current	<0.5mA		
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition removed		
	Over Load	⩽110% constant current limiting, auto-recovery after fault condition removed		
	Over temperature	100℃±10℃ shutdown o/p voltage, automatically recover after cooling		
Environment	Working TEMP.	-40~+60℃ (see below derating curve)		
	Working Humidity	20 - 95%RH non-condensing		
	Storage TEM.,Humidity	-40 - +80℃,10 - 95% RH non-condensing		
	TEMP.coefficient	±0.03%/℃(0 - 50℃)		
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72min. each along X,Y,Z axes		
Safety & EMC	Safety standards	UL8750 , CAN/CSA-C22.2 No.250.13		
	Withstand voltage	I/P-O/P: 1.8KVAC I/P-FG: 1.8KVAC O/P-FG1.8KVAC		
	Isolation resistance	I/P-O/P: 100MΩ/ 500VDC/ 25℃/ 70% RH		
	EMC Emission	FCC 47 CFR Part 15 ,Subpart B		
Others	Net Weight	1.00-1.06kgs		
	Dimension	260*133*45mm(L*W*H)		
	Packing	1pc in 1 inner box		
Notes	1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25℃of ambient temperature. 2. Tolerance: includes setup tolerance and load regulation.			

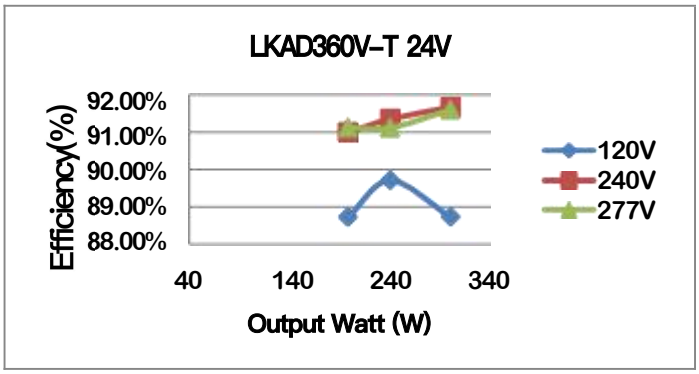
Electrical Characteristics

LKAD360V-T 12V							
Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
120V	2880.00	344.00	0.990	11.93	25000	298.25	86.70%
	2279.00	272.37	0.990	11.94	20000	238.80	87.67%
	1912.00	228.63	0.990	11.95	16800	200.76	87.81%
240V	1460.00	333.44	0.990	11.93	25000	298.25	89.45%
	1165.00	266.22	0.990	11.94	20000	238.80	89.70%
	979.00	223.77	0.990	11.95	16800	200.76	89.72%
277V	1235.00	332.00	0.970	11.93	25000	298.25	89.83%
	978.00	266.21	0.980	11.94	20000	238.80	89.70%
	822.00	223.10	0.980	11.94	16800	200.59	89.91%

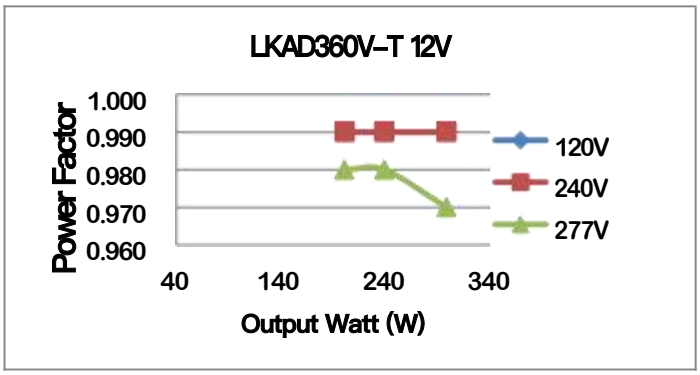
LKAD360V-T 24V							
Input voltage (Vac)	Input Current (mA)	Input Power (W)	Power Factor	Output Voltage (Vdc)	Output Current (MA)	Output Power (W)	Efficiency (%)
120V	2827	337.82	0.990	23.98	12500	299.75	88.73%
	2251	267.31	0.990	23.98	10000	239.80	89.71%
	1857	222.99	0.990	23.98	8250	197.84	88.72%
240V	1430	326.99	0.990	23.98	12500	299.75	91.67%
	1148	262.51	0.990	23.98	10000	239.80	91.35%
	950	217.41	0.990	23.98	8250	197.84	91.00%
277V	1210	326.97	0.970	23.96	12500	299.50	91.60%
	9630	262.97	0.980	23.96	10000	239.60	91.11%
	798	217.10	0.980	23.98	8250	197.84	91.13%

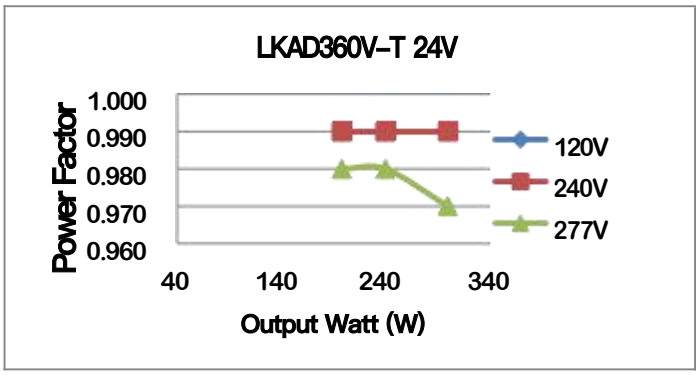
Efficiency Curve (efficiency vs ouput watt)





Power Factor Curve





Compatibility Testing for Phase Dimmer

Test by EU Standard 240V dimmers

Model: LKAD360V-T 12V

NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	T&J 25-1000W	7.89	300.95	2.62%
2	Lautrupvang DK-275D	8.97	298.00	3.01%
3	European-No 2	13.27	287.00	4.62%
4	TENGEN V5-TG/G	13.11	296.30	4.42%
5	Junnon	13.21	287.37	4.60%
6	CLIPSAL 500VA	10.77	295.70	3.64%
7	Midea 220V 630W	8.77	296.30	2.96%
8	LTECH	8.99	267.30	3.36%

Model: LKAD360V-T 24V

NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	T&J 25-1000W	7.99	302.10	2.64%
2	Lautrupvang DK-275D	8.77	301.70	2.91%
3	TENGEN V5-TG/G	7.66	306.70	2.50%
4	Nader	7.59	303.90	2.50%
5	CLIPSAL 500VA	7.66	304.70	2.51%
6	Midea 220V 630W	7.99	303.70	2.63%
7	European-No 1	8.03	305.00	2.63%
8	TCL 630W 220V	8.21	310.00	2.65%

Test by US Standard 120V dimmers

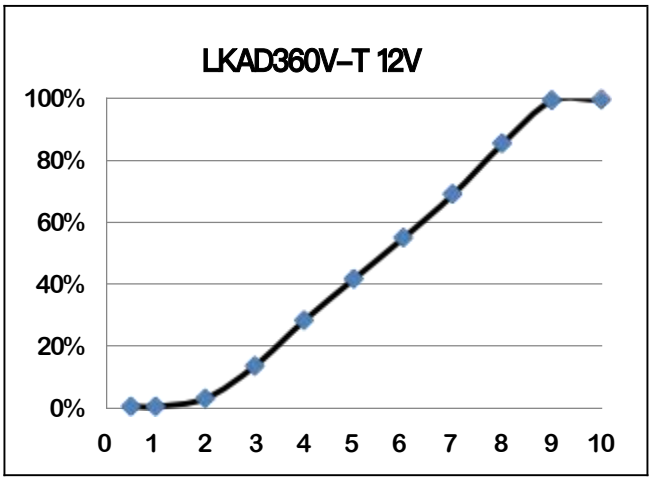
Model: LKAD360V-T 12V

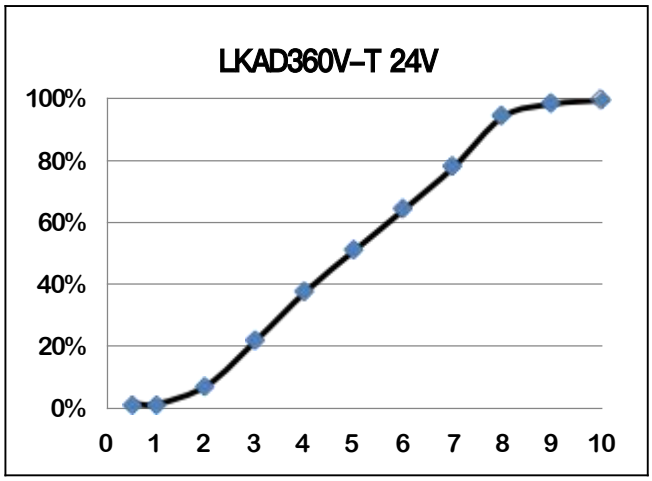
NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	Lutron SB-1 600W	2.97	305.70	0.97%
2	LC211	2.66	304.70	0.87%
3	Lutron DVCL-253P-WH	2.77	303.70	0.91%
4	TLC-0005	4.27	308.80	1.38%
5	PEC-002	4.31	307.70	1.40%
6	TLC-0003	4.35	305.00	1.43%
7	LEVLTON 150W	2.99	309.00	0.97%
8	Panasonic Wn3020	2.73	284.00	0.96%

Model: LKAD360V-T 24V

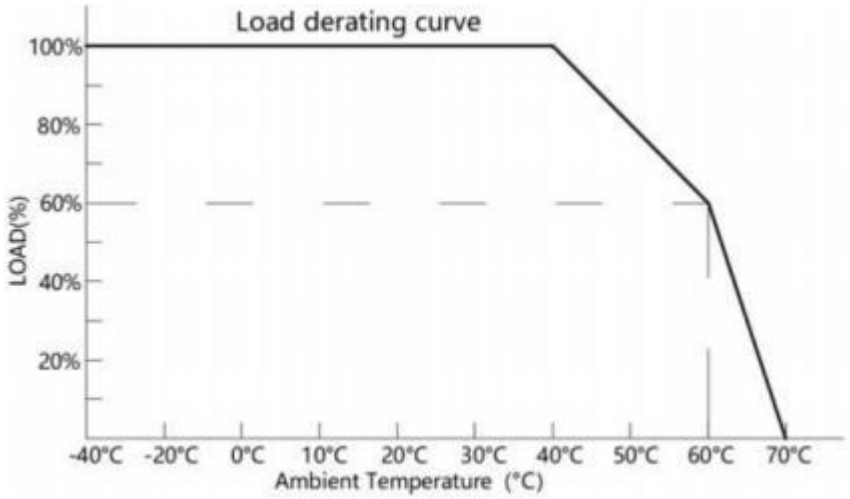
NO	Dimmer Model	Min Watt (W)	Max Watt (W)	Dimming ratio (%)
1	Lutron SB-1 600W	3.21	308.70	1.04%
2	LC211	3.29	307.70	1.07%
3	Lutron TTCL100	3.66	306.90	1.19%
4	TLC-0005	3.07	314.70	0.98%
5	PEC-002	3.28	313.60	1.05%
6	TLC-0003	2.67	313.20	0.85%
7	LEVLTON 150W	2.99	309.00	0.97%
8	PanaSonic Wn3020	3.49	310.40	1.12%

0-10V Dimming Curve

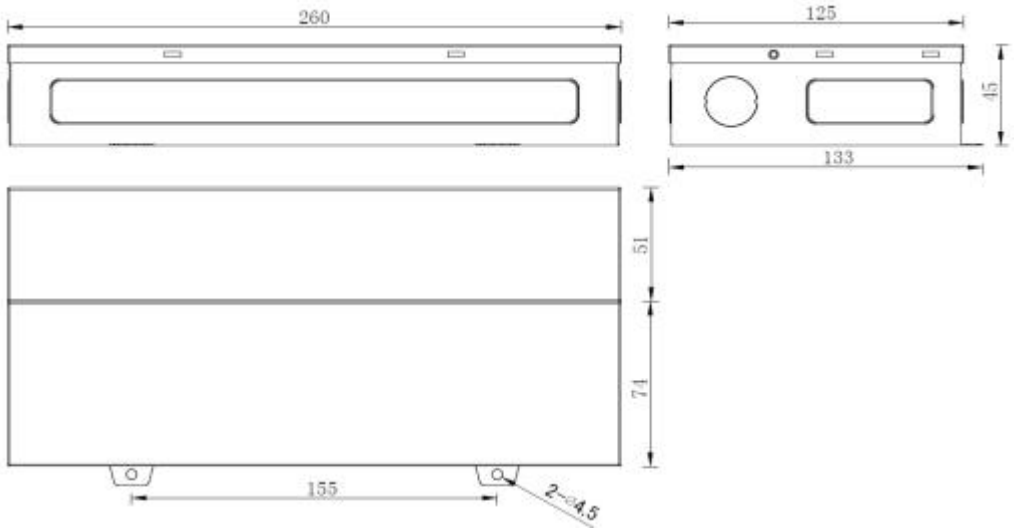




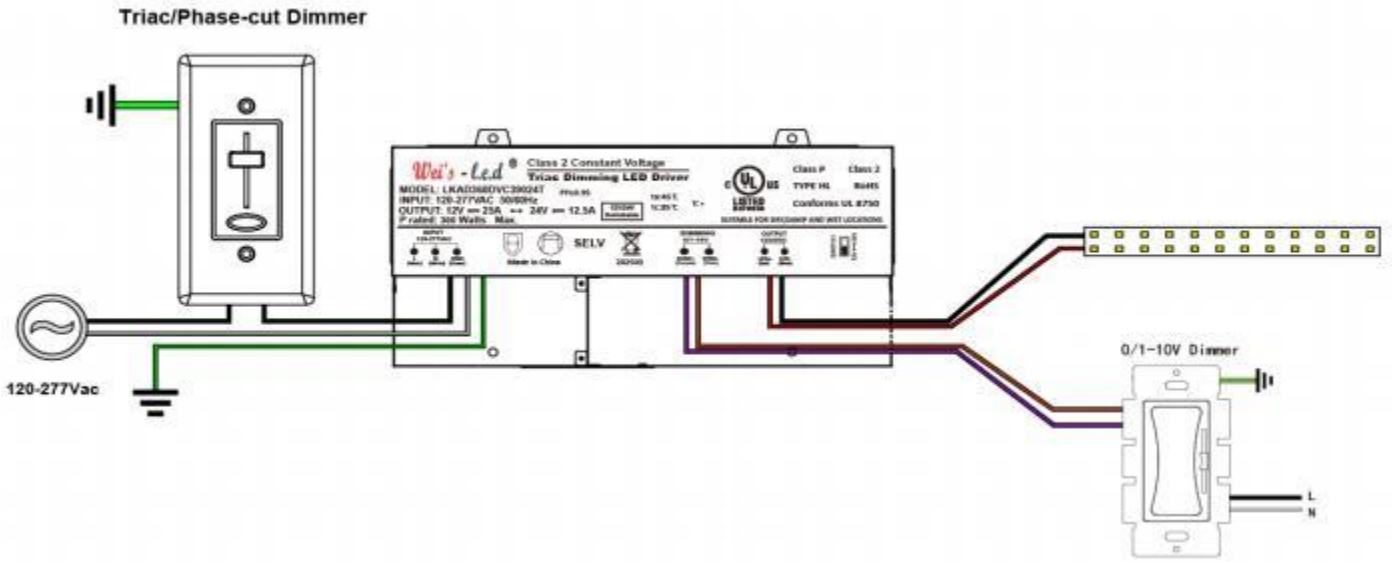
Derating Curve (output load vs TEMP.)



Installation Dimension



Wiring Diagram



1. Input cable 3*18AWG, the Green cable to GND, Black cable to L, and White cable to N of Mains AC.

2. Output cable 2*18AWG, Red cable (+) to LED Positive side (+), Black cable (-) to LED Negative side (-).

3. Dimming cable 2*22AWG, Purple cable DIM (+) to 0/1-10V dimmer signal(+), Pink cable DIM (-) to 0/1-10V dimmer signal (-).

4. Please DO NOT connect "DIM-" to "LED-", "DIM+" to " LED+", or other incorrect connection.

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

Dimming Operation

This driver can dimming in two ways at the same time, you must be assured that LED lighting is up to

1. TRIAC/Phase cut dimming

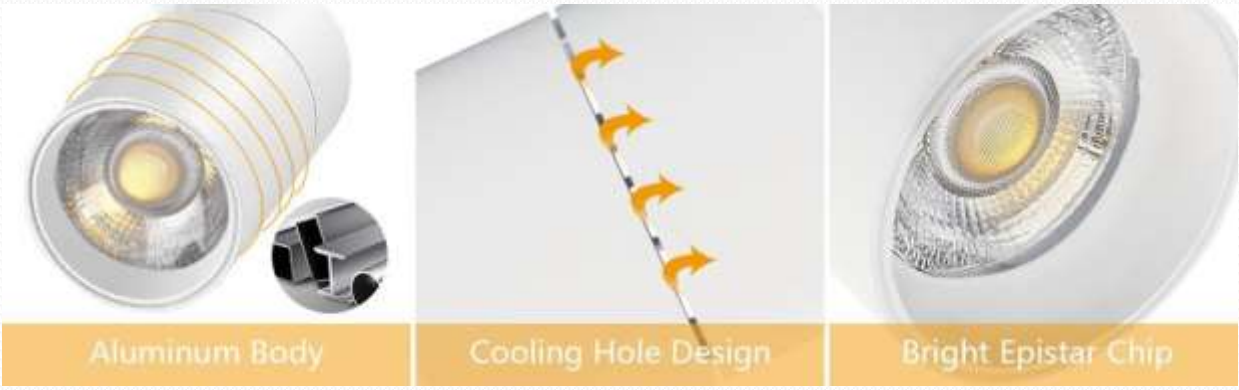
- The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
- Working with forward phase, MLV and Reverse phase , ELV, TRIAC dimmers or light system.
- Min. loading is about 10%
- Please try to use dimmers with power at least 1.5 times as the output power of the driver.

2. 0-10/ 1-10V/ 10V PWM/ Potentiometer dimming

Working well with most EU and US brands of 0/1-10V dimmers, 10V PWM dimmers or dimming system as well as

Notices

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.



Specification

Total Lumens	1000lms/2000lms
Lumen Efficiency	100Lm per watt
CRI	90
CCT	3 CCT Adjustable(3000-4000-5000K)
Beam Angle	38°
Listing	UL Approved
Voltage	120V
Working Temperature	- 35°C < Ta < 35°C
Warranty	3 year
Energy Rating Track System	Energy Star/ DLC HALO System

Series	Power	Voltage	Beam Angle	CCT Select	Finish
WG531 WG532	10W 20W	120V	38°	3000-4000-5000K	B=Black W=White

WEIS
LED

OPTICS

Tech. Support. Tell us the room length, width, height and the usage. We have an engineer team to respond the DIALUX simulations for lights quantity calculation and effects.
Ies files are available upon request.

Features&Application

- 50% higher energy saving rate than the traditional metal halide lamp.
- No flicker , no dazzle , meanwhile very healthy to the eye.
- Dimmable: Compatible with 90% triac dimmer in whole market.
- Environmental protection: Meet RoHs requirements; Contains no plumbum and tribute elements.

Shopping malls , bo cultural relics exhibition hall, chain stores, brand business hall, professional Windows, counters and other key lighting places.

Features&Application

- 50% higher energy saving rate than the traditional metal halide lamp.
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Shopping malls , bo cultural relics exhibition hall, chain stores, brand business hall, professional Windows, counters and other key lighting places.

Product description

- Lumen Efficiency: 80 Lm/W
- No flicker, no dazzle, meanwhile very healthy to the eye.
- Life span: 30,000hrs, 3 Years warranty.
- IP20 Waterproof
- Beam angle: 38°
- Applications: Shopping malls , bo cultural relics exhibition hall, chain stores,

*brand business hall, professional Windows, counters and other key lighting places.

Track Lamp

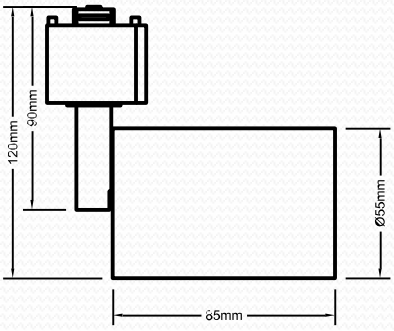
LED ECO

WG 85B

Sand Black

Power	GU10 /50W (Bulb no included)
Fixture Size	D55×85mm
Track Adaptor	Three wires One Circuit

RoHS IP20

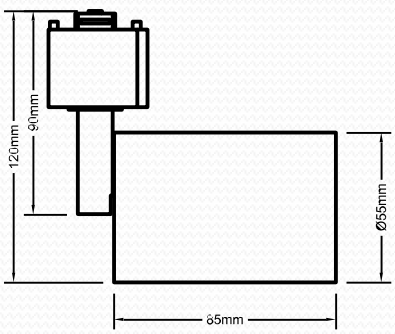


WG 85W

Sand White

Power	GU10 /50W (Bulb no included)
Fixture Size	D55×85mm
Track Adaptor	Three wires One Circuit

RoHS IP20



CCT Track Lamp

LED ECO

WG 312W & WG 312B

	Matte Black	Matte White
Power	12W	12W
Fixture Size	D60×120mm	D60×120mm
Luminous Flux	760lm / 786lm / 813lm	
CCT	2700K / 4000K / 6000K	
CRI	CRI>85	CRI>85
Power Factor	0.90	0.90
Input Voltage	120V	
Bean Angle	38°	
Lifespan(hrs)	30000hr	
Dimming	Triac Dimmer	
Track Adaptor	Three wires One Circuit	

WG 325W & WG 325B

	Matte Black	Matte White
Power	25W	25W
Fixture Size	D80×130mm	D80×130mm
Luminous Flux	1735lm / 1822lm / 1908lm	
CCT	2700K / 4000K / 6000K	
CRI	CRI>85	CRI>85
Power Factor	0.90	0.90
Input Voltage	120V	
Bean Angle	38°	
Lifespan(hrs)	30000hr	
Dimming	Triac Dimmer	
Track Adaptor	Three wires One Circuit	

Model: WG 86 & WG 87
H-Type GU10 Base Track Lighting Head

Wei's - l.e.d ®

PRODUCT DESCRIPTION:

GU10 base line voltage track lightingt head (bulb not included), compatible H-type 3 wires single circuit track systems, black, white finished.

FEATURE:

1. H type compatible with H-type 3 wires single circuit track systems.

2. Compatible with 50W max MR16-shaped GU10 Halogen or GU10 LED, offering dual lighting technology compatibility.

3. Plug-in track lighting offers versatile adjustability, with the ability to rotate 90° vertically and 350° horizontally, allowing for optimal positioning and general lighting coverage.

4. Easy installation and Easy to replace the Bulb.

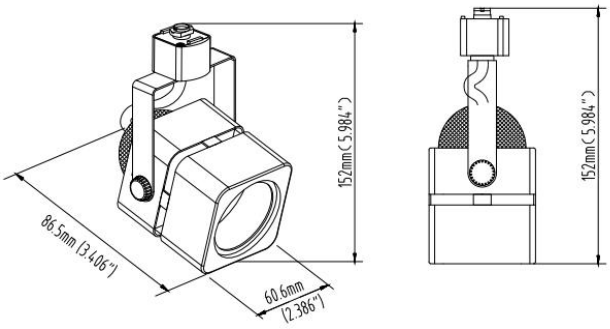
SPECIFICATIONS:

Product Name	H-Type GU10 Base Track Lighting Head
Track Adapter	H-type 3 wires single circuit
Voltage	AC120V
Material	Iron + PC
Shape	Round, square
Bulb Base	GU10
Bulb Shape Size	MR16
Finished Color	Black, White
Rotation	350° Horizontal
Tilt	90° Vertical
IP Rating	IP20
Usage Environment	Indoor
Warranty	3-Years
Applications	Bedroom, Living Room, Dining Room, Kitchen, Kids, Nursery, Bathroom, Home Office

TECHNICAL DRAWING:

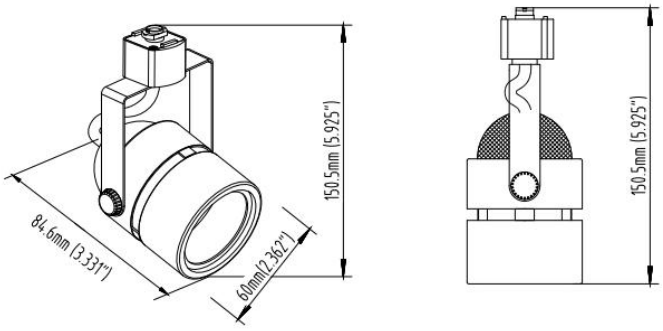
Square

Order Guide (Model: WG 86B/WG 86W)



Round

Order Guide (Model: WG 87B/WG 87W)



Weis International Trading Corp.

110 McClean ave. Staten Island, New York, 10305 USA

https://weisled.com E-mail: weisintl@msn.com

10-60 Degree Beam Adjustable 20W LED Track Head

Dimmable / Color Selectable / Beam Spread Ajustable

Model NO.: WG 652 B, WG 652 W

Wei's

Features:

10°- 60° Beam Spread:

This one is a highly advanced spotlight fixture that allows you to manually change its beam angle. Instead of being locked into a single beam spread (like a fixed 10° spot or a 60° flood), a zoomable fixture can seamlessly adjust its focus, often across a wide range.

Innovative Thermal Design:

Aluminum housing, high strength and hardness with convective holes for better heat dissipation.

Dimming:

Triac dimming, smooth range from 100% to 10%, recommended dimmer brands: Lutron, Leviton etc.

CCT Adjustable:

It can be applied in various scenarios of different colors, only using one light. Also it can help you reduce overstock and reduce purchasing cost.

Unique Anti-glare Design:

It can effectively reduce the damage of light to eyes and reduce glare pollution.

LED Characteristics:

High-quality COB LED chips, strong penetrability, high fidelity CRI up to 95Ra and high efficacy up to 125Im/W maximum.

Flexible Rotation:

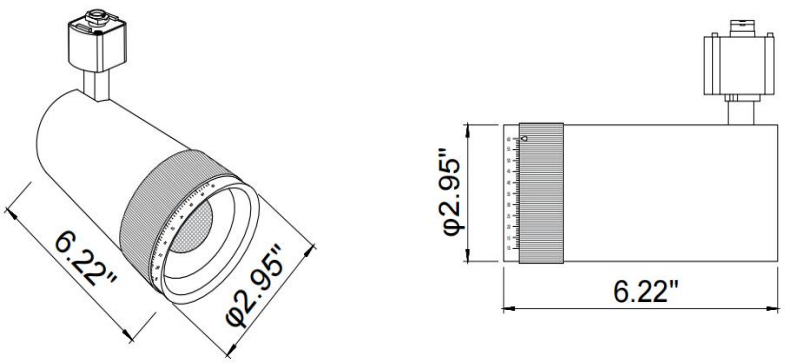
Adjustable track heads with 355° horizontal & 90° vertical rotation, which allows you direct the light beam exactly and light up where you need brightness.

SPECIFICATION	
Product Name	LED Track Head
Wattage	20W
Input Voltage	AC120V 60Hz
Track Adapter	H-type, J-type, L-type
5 CCT Adjustable	2700K-3000K-3500K-4000K-5000K
CRI	CRI95
Beam Angle	10-60 degree beam adjustable
Finished Color	Black, White
Size	ϕ2.95''XL6.22''XH6.1''
Dimming	Triac Dimming 100%-10%
Compatible Dimme	Lutron, Leviton etc.
Power Factor	≥0.98
Lumens	2500 Lm. Maximum
Design Style	Integrated Built-in Driver
Projected Life	50000hrs
Warranty	5-Year
Rotation	355° Horizontal
Tilt	90° Vertical
Certification	ETL, UL
Application	Museum, Gallery, Stores, Showroom, Supermarkets, Hotels, Restaurant etc.

Description:

WG652B, WG652W LED track heads, unique integrated built-in driver and anti-glare design, simple and stylish, high-end atmosphere, very popular with customers in the North American market. The track light heads offer an adjustable, scalable lighting solution for museums, galleries, and exhibition spaces. Structural arm provides a wide range of motion and maintains placement for precise illumination. Long-lasting,energy efficient, COB LED chips provides high-quality, zeromaintenance light. With standard line voltage, mount to a compatible H-type tracks system.With CRI up to 95Ra, use one or multiple track heads to highlight artwork, architecture, retail products, or accent lighting.

Technical Drawing:



Wei's	WG 7507 PAR20 40° 110V 8W 500LM CRI85 5CCT Dim E26	Product Code
		WB 7507

1	**Product Information**				
1-1	Product Description	WG 7507 PAR20 40° 110V 8W 500LM CRI85 5CCT Dim E26			
1-2	Primary Region	North America and Canada			
1-3	Primary Application	Household, Church, School, Shopping Center			
1-4	Primary Replacement	75w			
1-5	Warranty	3 Years			
1-6	Enviromental(RoHS/REACH)	RoHS			
1-7	Certificates	UL/CUL			
2	**Product Specification**				
2-1	Lamp Type	PAR20			
2-2	Dimmable (Y/N)	Yes			
2-3	Base/Cap	E26			
2-4	Lamp Wattage	8W			
2-5	Life time	25,000hrs			
2-6	Operating Temperature	-20/45ºC			
2-7	Enviromental Rating	Damp Location			
2-8	Size(WxH)	63x79mm			
2-9	Material	Metal and Plastic			
3	**Photometric Characteristics**				
3-1	Nominal Lumens	500	3-6	Color Rendering Index	>85
3-2	Centre Beam Candle Power (Cd)	2300	3-7	R9	N.A
3-3	Beam Angle	24 degree	3-8	SDCM	<7
3-4	Initial Lumens per Watt	63lm/W			
3-5	Color Temperature	5CCT: 27/30/35/40/50K			
4	**Electrical Characteristics**				
4-1	Rated Voltage/Frequency	110V/60 Hz	4-5	Total Harmonic Distortion	N.A
4-2	Lamp rated Wattage	8W	4-6	Electro Megnetic Compatibility	N.A
4-3	Power Factor	>0.7	4-7	Dimming Range in %	10-100%
4-4	Input Current	75mA			
5	**LED Information**				
5-1	Chip Manufacturer	Bridgelux	5-4	LED model	2835
6	**Package**				
6-1	Color Box Size	67x67x85mm	6-2	Q'ty per Box (pcs)	1 pcs
6-3	Master Carton Size	430x360x198mm	6-4	Q'ty per Carton (pcs)	60pcs
6-5	Gross weight	4.69kg	6-6	Net Weight	3.48kg

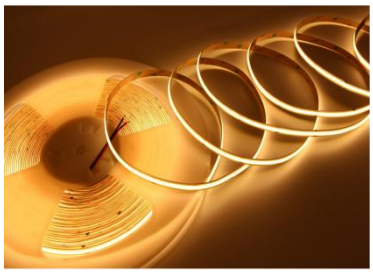
Wei's	WB 8603 GU10 40° 110V 8W 500LM CRI85 3CCT:30/40/50K Dim	Product Code
		WB 8603

1	**Product Information**				
1-1	Product Description	WB 8603 GU10 40° 110V 8W 500LM CRI85 3CCT:30/40/50K Dim			
1-2	Primary Region	North America and Canada			
1-3	Primary Application	Household, Church, School, Shopping Center			
1-4	Primary Replacement	75w			
1-5	Warranty	3 Years			
1-6	Enviromental(RoHS/REACH)	RoHS			
1-7	Certificates	UL/CUL			
2	**Product Specification**				
2-1	Lamp Type	GU10			
2-2	Dimmable (Y/N)	Yes			
2-3	Base/Cap	GU10			
2-4	Lamp Wattage	8W			
2-5	Life time	25,000hrs			
2-6	Operating Temperature	-20/45^{0}C			
2-7	Enviromental Rating	Damp Location			
2-8	Size(WxH)	50x59mm			
2-9	Material	Metal and Plastic			
3	**Photometric Characteristics**				
3-1	Nominal Lumens	500	3-6	Color Rendering Index	>80
3-2	Centre Beam Candle Power (Cd)	650	3-7	R9	N.A
3-3	Beam Angle	40 degree	3-8	SDCM	<7
3-4	Initial Lumens per Watt	63lm/W			
3-5	Color Temperature	3CCT:30K/40K/50K			
4	**Electrical Characteristics**				
4-1	Rated Voltage/Frequency	110V/60 Hz	4-5	Total Harmonic Distortion	N.A
4-2	Lamp rated Wattage	8W	4-6	Electro Megnetic Compatibility	N.A
4-3	Power Factor	>0.7	4-7	Dimming Range in %	10-100%
4-4	Input Current	75mA			
5	**LED Information**				
5-1	Chip Manufacturer	Bridgelux	5-4	LED model	2835
6	**Package**				
6-1	Color Box Size	54x54x64mm	6-2	Q'ty per Box (pcs)	1 pcs
6-3	Master Carton Size	340x290x156mm	6-4	Q'ty per Carton (pcs)	60pcs
6-5	Gross weight	2.69kg	6-6	Net Weight	1.70kg

20M/COB constant current Led strips/

480pcs led/meter/DC24V/IP20/8mm

- Big beam angle, no dark area, flexible line source with good heat dissipation.
- This circuit adopts a constant voltage and constant current scheme, which provides more stable performance.
- LED light strips can be connected up to 20 meters with minimal brightness differences.
- high luminous efficacy,Luminous efficiency can reach 91LM/W.
- Ra>90, high color rendering index.
- Step length:50mm,double PCB,reduce the voltage drop.
- IP grade：IP20、IP65、IP66.



Application:

Widely used in hotels、shopping malls、furniture、cabinets、shelf，as decoration lighting, direct lighting or indirect lighting.

Installation:

3M Adhesive

Warranty:

5 years

Optical&Electrial

Product Model	Color	CCT（K）	Ra	Beam angle (°)	Lumen (lm/m)	Efficiency (lm/W)	Voltage （V DC）	Current (mA/m)	Power (W/m)
SW-FCOBW240 -WF0	WW	2700	≥90	140	660	88	24	313	7.5
SW-FCOBW240 -WF0	WW	3000	≥90	140	675	90	24	313	7.5
SW-FCOBN240 -WF0	NW	4000	≥90	140	682	91	24	313	7.5
SW-FCOBC240 -WF0	CW	6500	≥90	140	682	91	24	313	7.5

20M/COB constant current Led strips/

480pcs led/meter/DC24V/IP20/8mm

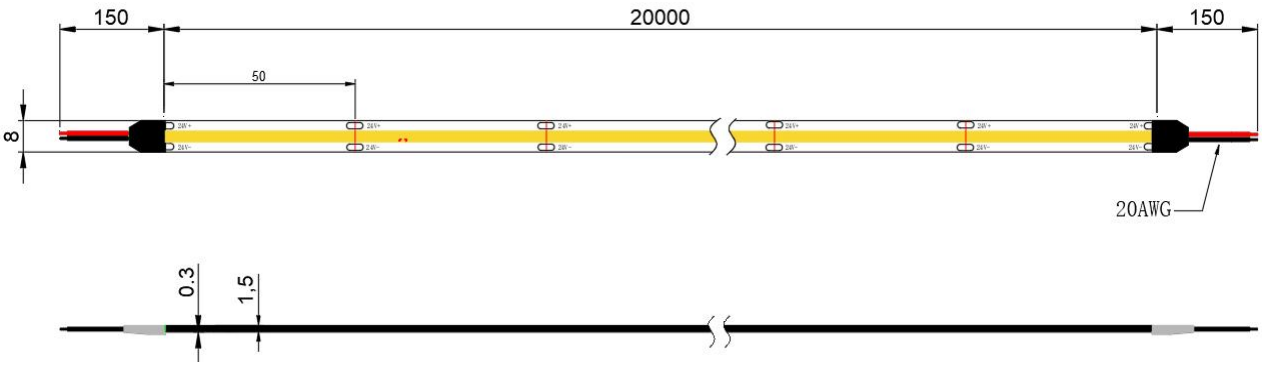
Other features:

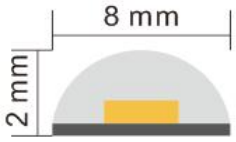
Product Model	IP grade	Working environment (℃)	Storage environment (℃)	Length (m)	Max connection Length (m)	LED Qty (pcs/m)	N.W (g/Roll)
SW-FCOBX240-WF0	IP20	-25~+45	-30~+80	20	20	480	325

Notes：

- Testing environment temperature: 25±2℃.
- Above data confirmed on the basis of 1M sample, 3000k, IP20.
- Different IP grade with different Data.
- Mark“—”means no testing requirement.

Demensions:



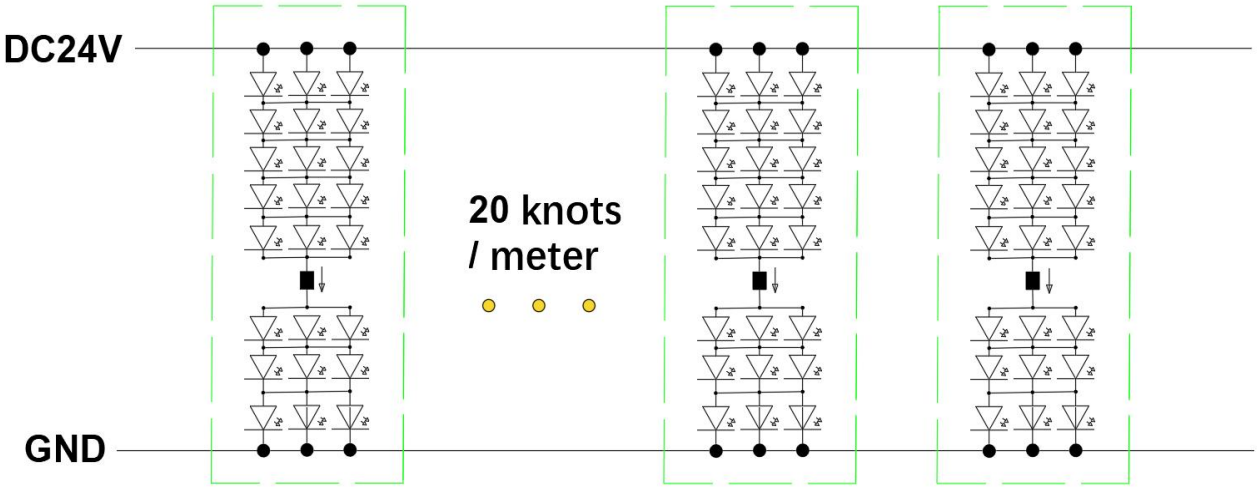


IP65
(Silicone glue)

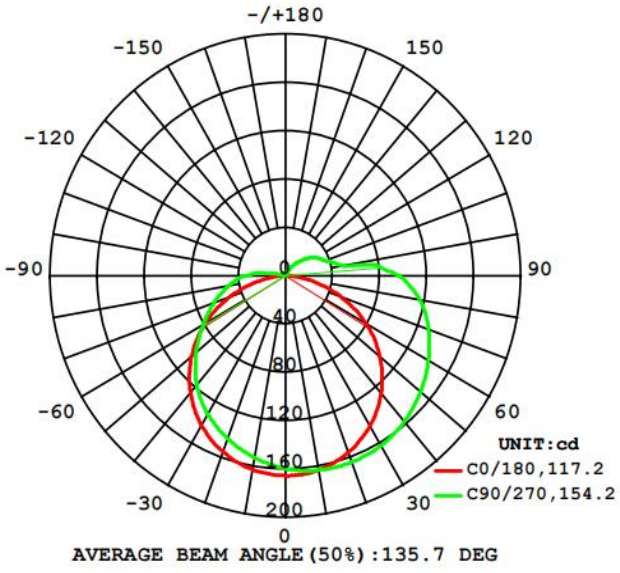
20M/COB constant current Led strips/

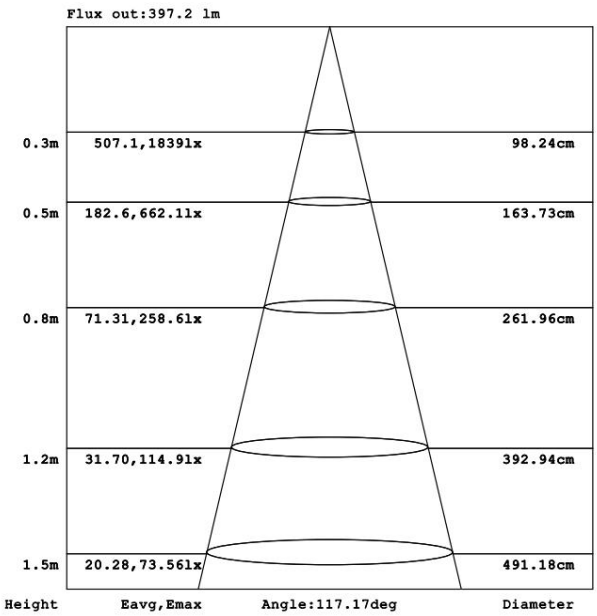
480pcs led/meter/DC24V/IP20/8mm

Electrial principle：



Optical/Lux graph：





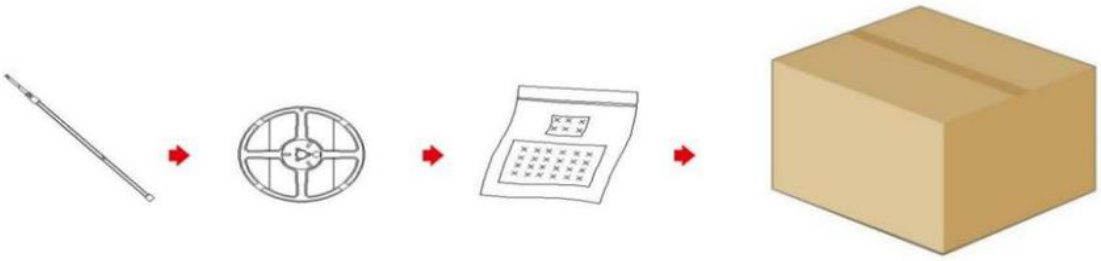
20M/COB constant current Led strips/

480pcs led/meter/DC24V/IP20/8mm

Package details：

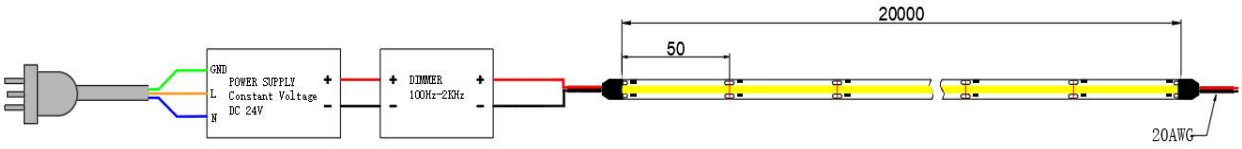
Model	carton	Qty/Roll(m)	Qty/Carton (m)	Total Qty(m)	G.W(Kg)	size(mm)
SW-FCOBX240-WF0	inner box	/	/	/	/	/
	outer box	10	20	200	4.1	L360*W360*H175mm

Package：

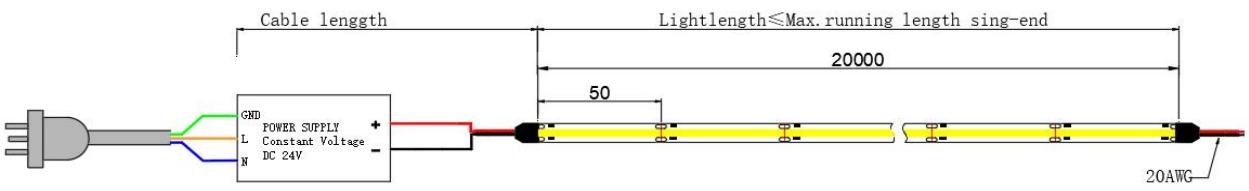


20meters/roll　　1 roll/bag　　10 bags/box

Schematic：



LED driver



LED driver

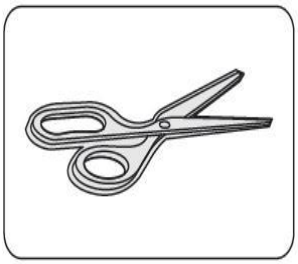
（PS：Strip positive connect to the driver positive,
Strip negative connect to driver negative）

20M/COB constant current Led strips/

480pcs led/meter/DC24V/IP20/8mm

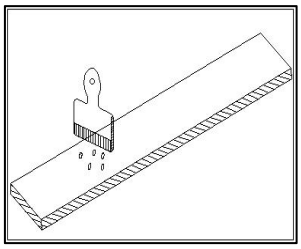
Product and needed tools：

Product
Led strip

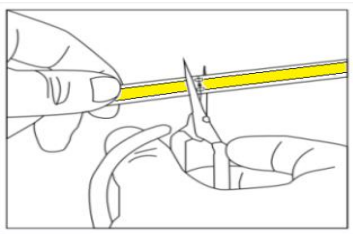


Needed tools
scissor

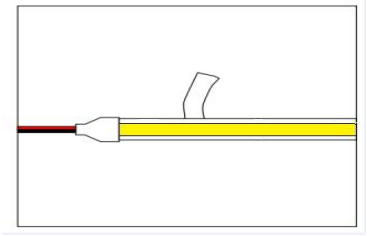
Installation steps：



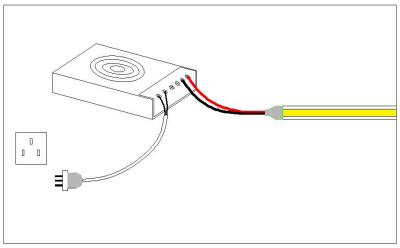
- Clean the installation surface



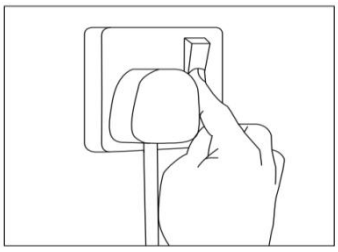
- Measure the length you need to install, cut at the nearest scissor mark line.
- For the left led strip, weld at the next scissor mark to connect with other connection wire.



- Do not pull the whole led strip from the back release paper by one time. No press on the leds.



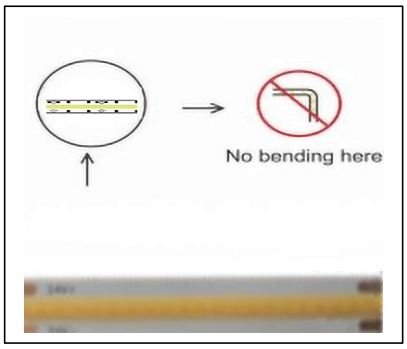
- Connect the led strip wire to the driver output side (Positive to positive, negative to negative.)
- Connect the driver input side to power-supply.



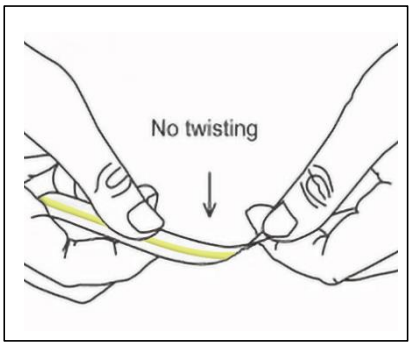
- Switch on and enjoy.

20M/COB constant current Led strips/

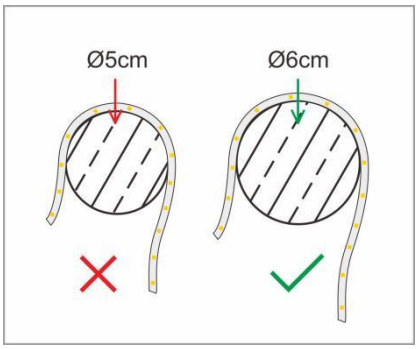
480pcs led/meter/DC24V/IP20/8mm



- No bending at the point of leds



- No contortion of the led strip.



- No bending with Diameter<6cm

Usual problem with solutions：

Problem	Possible reasons	solution
All fail	● No power supply	Give power supply.
	● Automatic switch-off because of the open circuit and short circuit	Solve the problem, switch on again.
Part fail	● Wrong connection (positive connect with negative)	Check and get right connection.
	● Part power-supply fail	Check and make sure the power supply well.
	● Part circuit error	
Inconsistent brightness or insuffiscent brightness	● Part wrong connection(positive connect negative)	Check and get right connection.
	● overload of the driver	Use higher-power driver.
	● Too big power consumption of the switch, or unbalanced power consumption from different strip series.	Keep the strip working voltage is more or less 5% than the Rated voltage. 1.shorten the connection cable length, or change to thicker cable. 2.Make sure the strip quantity is less than the allowed connection quantity.Keep the led strip quantity of each series similar）.
LED flash	● Too many Led strips connection	Adjust the led strip quantity，make sure sufficient power supply.
	● Poor welding connection of wires	Check,find and solve it.
	● switch problem	Change to right switch.

20M/COB constant current Led strips/

480pcs led/meter/DC24V/IP20/8mm

Statements：

- For safety, the product wire should be moved and replaced by the manufacturer, agent or other authorized person.
- Please refer to the product manual before installation.
- Above-refered data is from our standard product. Please subject to your actual product data if there is difference.
- Above-refered schematic diagrams are from our standard product. Please subject to your actual product data if there is difference.
- In actual use,we suggest 80% consumption of the driver. Keep 20% as power to start the led strip.
- For safety, no touch the AC terminal.
- Any acidic or alkaline substance is forbidden.
- No notice for updated of this product.
- Starwire reserve the final interpretation of the specification.

5M/COB constant voltage Led strips/

480pcs led/meter/DC24V/IP20/10mm

- Big beam angle, no dark area, flexible line source with good heat dissipation.
- Inverted COB gold-free technology.
- Ra>90, cuttable and re-connectable.
- Step length:50mm.
- High luminous efficiency can reach 140lm/w with RA>90
- IP grade：IP20、IP65、IP66、IP67
- CUL/CE/ROHS certification.

Application:

Widely used in hotels、shopping malls、furniture、cabinets、shelf，as decoration lighting, direct lighting or indirect lighting.

Installation:

3M Adhesive

Warranty:

5 years

Optical&Electrial

Product Model	Color	CCT（K）	Ra	Beam angle (°)	Lumen (lm/m)	Efficiency (lm/W)	Voltage （V DC）	Current (mA/m)	Power (W/m)
SW-FCOBW240-WF0	WW	2700	⩾90	140	1842	127	24	604	14.5
SW-FCOBW240-WF0	WW	3000	⩾90	140	1957	135	24	604	14.5
SW-FCOBN240-WF0	WW	4000	⩾90	140	2030	140	24	604	14.5
SW-FCOBC240-WF0	WW	6000	⩾90	140	2030	140	24	604	14.5

5M/COB constant voltage Led strips/

480pcs led/meter/DC24V/IP20/10mm

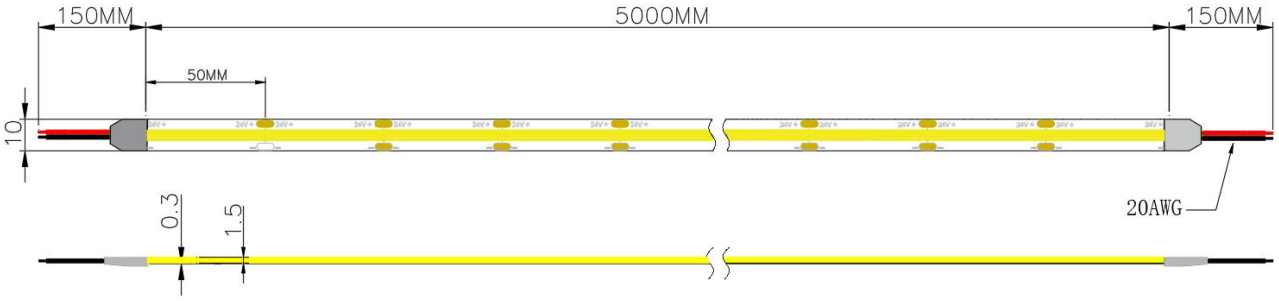
Other features:

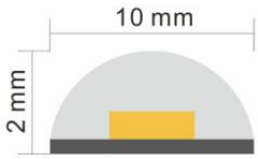
Product Model	IP grade	Working environment (℃)	Storage environment (℃)	Length (m)	Max connection Length (m)	LED Qty (pcs/m)	N.W (g/Roll)
SW-FCOBX240-WF0	IP20	-25~+45	-30~+80	5	5	480	78.5

Notes：

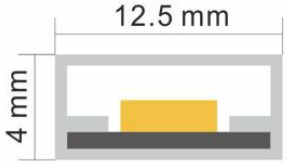
- Testing environment temperature: 25±2℃.
- Above data confirmed on the basis of 1M sample,Ra90, 4000k,IP20.
- Different IP grade with different Data.
- Mark“—”means no testing requirement.

Demensions:

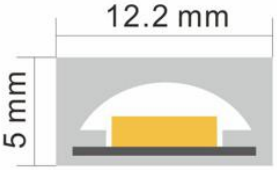




IP65
(Silicone glue)



IP66
(Silicone tube)

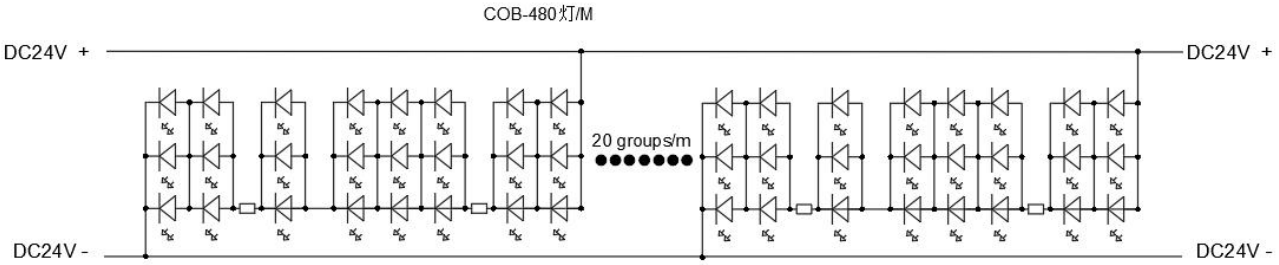


IP67
(Extrusion Molding)

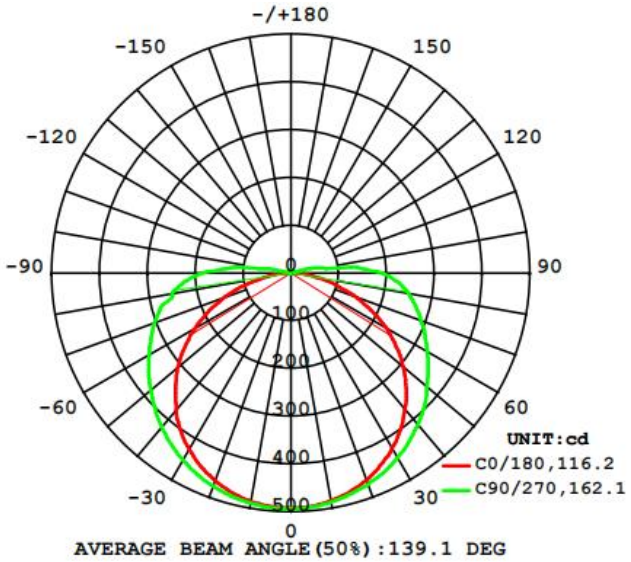
5M/COB constant voltage Led strips/

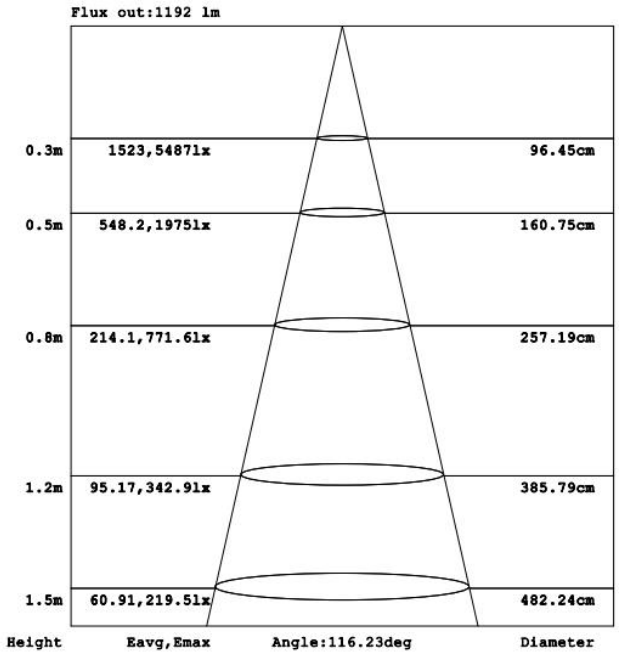
480pcs led/meter/DC24V/IP20/10mm

Electrial principle：



Optical/Lux graph：





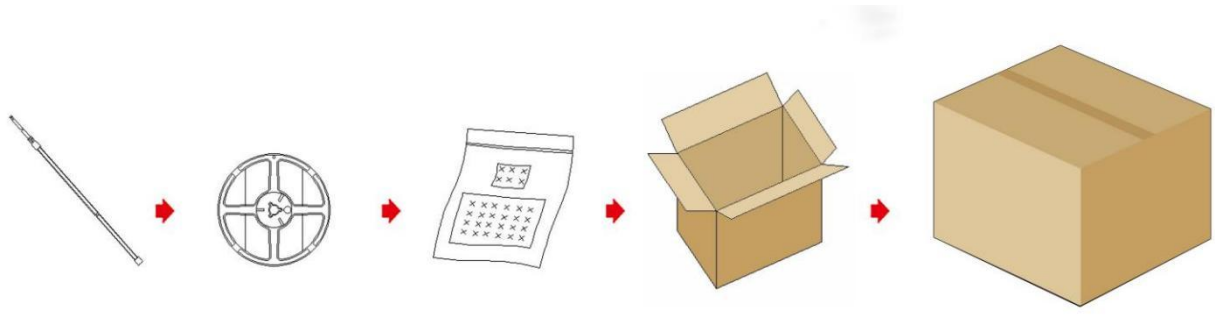
Package details：

Model	Qty/Roll (m)	Qty/Carton (m)	Total Qty (m)	G.W (Kg)	Inner box size (mm)	outer box size (mm)
SW-FCOBX240-WF0	5	125	500	12.26	L303*W230*H260	L620*W472*H280

5M/COB constant voltage Led strips/

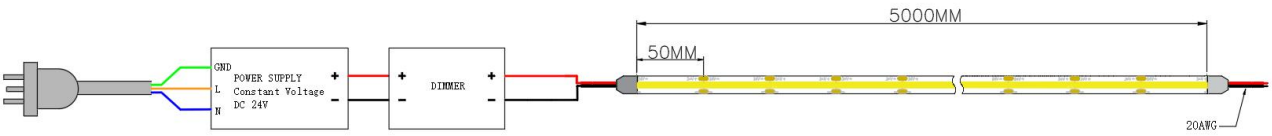
480pcs led/meter/DC24V/IP20/10mm

Package：



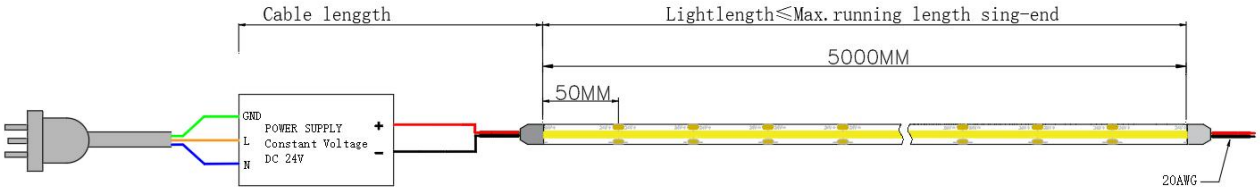
5m/roll　　1 roll/bag　　25 bag/Inner box　　4Inner box/outer box

Schematic：



“+”:red wire

“-”:black wrie



Starwire suggested the maximum connectable length of the strip is 5 meters

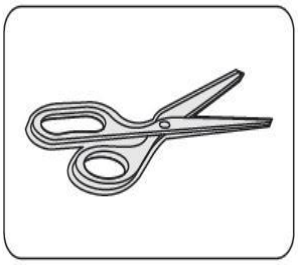
（PS：Strip positive connect to the driver positive,
Strip negative connect to driver negative）

5M/COB constant voltage Led strips/

480pcs led/meter/DC24V/IP20/10mm

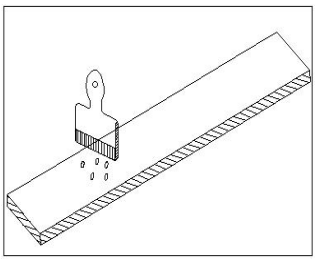
Product and needed tools：

Product
Led strip

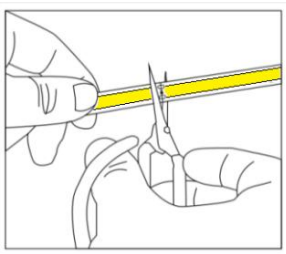


Needed tools
scissor

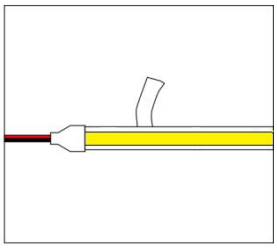
Installation steps：



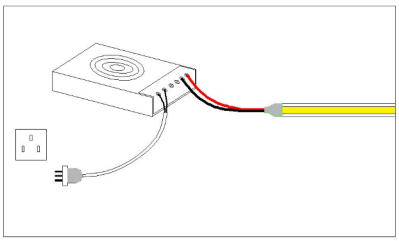
- Clean the installation surface



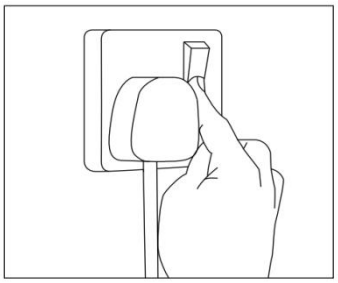
- Measure the length you need to install, cut at the nearest scissor mark line.
- For the left led strip, weld at the next scissor mark to connect with other connection wire.



- Do not pull the whole led strip from the back release paper by one time. No press on the leds.



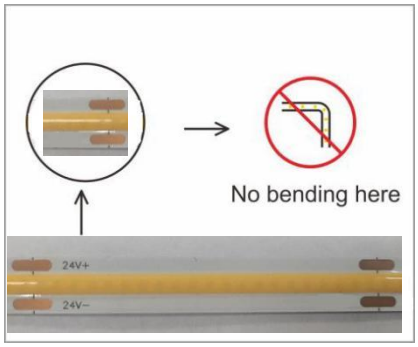
- Connect the led strip wire to the driver output side (Positive to positive, negative to negative.)
- Connect the driver input side to power-supply.

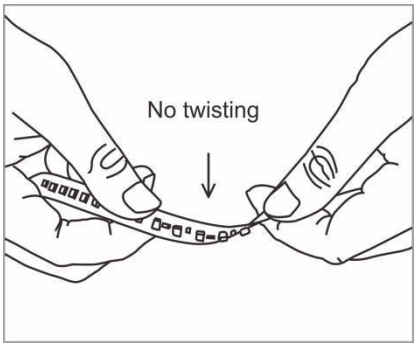


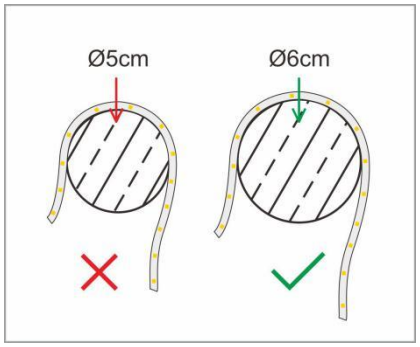
- Switch on and enjoy.

5M/COB constant voltage Led strips/

480pcs led/meter/DC24V/IP20/10mm







- No bending at the point of leds
- No contortion of the led strip.
- No bending with Diameter<6cm

Usual problem with solutions：

Problem	Possible reasons	solution
All fail	● No power supply	Give power supply.
	● Automatic switch-off because of the open circuit and short circuit	Solve the problem, switch on again.
Part fail	● Wrong connection (positive connect with negative)	Check and get right connection.
	● Part power-supply fail	Check and make sure the power supply well.
	● Part circuit error	
Inconsistent brightness or insuffiscent brightness	● Part wrong connection(positive connect negative)	Check and get right connection.
	● overload of the driver	Use higher-power driver.
	● Too big power consumption of the switch, or unbalanced power consumption from different strip series.	Keep the strip working voltage is more or less 5% than the Rated voltage. 1.shorten the connection cable length, or change to thicker cable. 2.Make sure the strip quantity is less than the allowed connection quantity.Keep the led strip quantity of each series similar）.
LED flash	● Too many Led strips connection	Adjust the led strip quantity，make sure sufficient power supply.
	● Poor welding connection of wires	Check,find and solve it.
	● switch problem	Change to right switch.

5M/COB constant voltage Led strips/

480pcs led/meter/DC24V/IP20/10mm

Statements：

- For safety, the product wire should be moved and replaced by the manufacturer, agent or other authorized person.
- Please refer to the product manual before installation.
- Above-refered data is from our standard product. Please subject to your actual product data if there is difference.
- Above-refered schematic diagrams are from our standard product. Please subject to your actual product data if there is difference.
- In actual use,we suggest 80% consumption of the driver. Keep 20% as power to start the led strip.
- For safety, no touch the AC terminal.
- Any acidic or alkaline substance is forbidden.
- No notice for updated of this product.
- Starwire reserve the final interpretation of the specification.

H – Single Strip Light

High Level Single Color Strip Light

Product data

- Specifications

Beam Angle	120 D
Input Voltage	12V
Rated Avg. Life	50000 hr (Hours)
LEDs (per ft)	9
Operating Temp.	– 22 F to 122 F
Max Run	32 ft
Dimming	0 – 10V
Warranty	5 years

Lumen data

Color Temp	Watts (per ft)	Lumens (per ft)	Efficacy (lm/W)	CRI
2700K	**2.2**	**196**	**89**	**85**
3000K	**2.2**	**200**	**91**	**85**
3500K	**2.2**	**206**	**94**	**85**
4500K	**2.2**	**209**	**95**	**85**
5500K	**2.2**	**216**	**98**	**85**

Wei's - l.e.d®

8FT T8 LED TUBE LIGHT (TYPE A+B)

WS-ALT8-8FTAB-M48W-CCT

DESCRIPTION

T8 LED Tube | Type A+B | FA8 Base | Double Ended | 24-48W | 3500K-6500K | 8FT

CONSTRUCTION

Plastic / Aluminum | 8' LED T8 Tubes | FA8 Base

ELECTRICAL

Compatible with most instant- and programmed-start electronic T8 ballasts. Bypass ballast runs on 120-277V line voltage.

INSTALLATION

Type A+B (Double-end Wiring).

APPLICATIONS

Office Buildings/Schools/Factories/Hospitals
Suitable for dry and damp indoor locations.
Working temperature -4°F to 113°F (-20°C to 45°C).

LISTING

ETL, DLC, FCC

WARRANTY

5 Years Limited Warranty, Rated for 50,000 hours.

FEATURES

Bulb Type	T8 LED
Base Type	FA8
Size	8FT
5Wattage	24W/30W/36W/42W/48W (Selectable)
5CCT	3500K/4000K/5000K/ 5700K/6500K (Selectable)
Efficiency	126-150lm/W
Input Voltage	120-277V AC
Frequency Range	50/60Hz
Ballast Compatibility	Type A+B
Wire Connection	Double-end Wiring
Cover	Frosted / Clear
CRI	>80
PF	>0.95
THD	<=20%
Beam Angle	120°
IP Rating	IP 20
Lifetime	50,000 hours

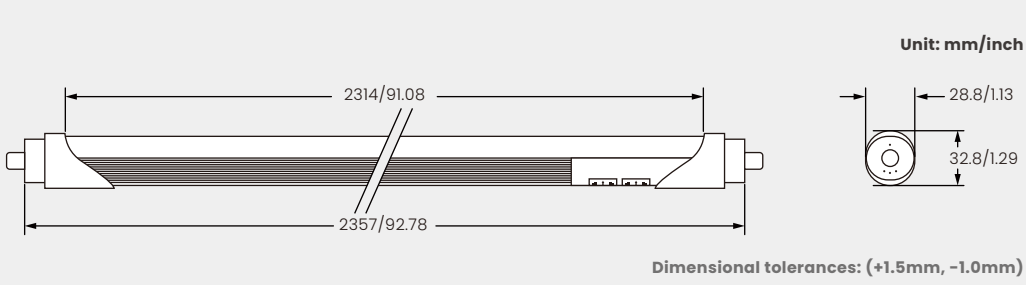
8FT T8 LED TUBE LIGHT (TYPE A+B)

WS-ALT8-8FTAB-M48W-CCT

ORDERING INFORMATION

Model	Size	Wattage	Voltage	Lumens	Efficacy	CCT	Dimensions
WS-ALT8-8FTAB-M48W-CCT	8FT	24W, 30W, 36W, 42W, 48W (Selectable)	120-277V	3600lm, 4380lm, 5000lm, 5550lm, 6050lm	126-150lm/W	3500K, 4000K, 5000K, 5700K, 6500K (Selectable)	92.78"L x 1.13"W x 1.29"H

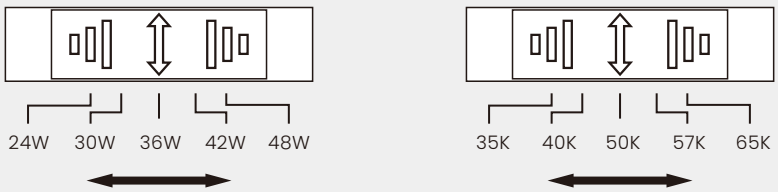
PHYSICAL SPECIFICATIONS



WEIGHT INFORMATION

1 Piece
1 lbs.

WATTAGE AND CCT SWITCHABLE

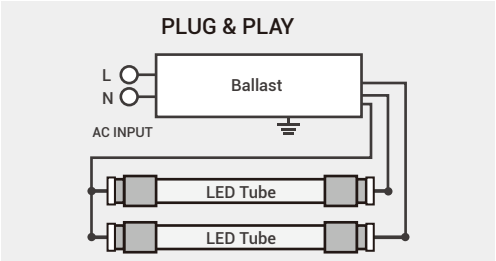


INSTALLATION INSTRUCTIONS

TYPE A INSTALLATION DIRCT REPLACEMENT (WITH EXISTING BALLAST)

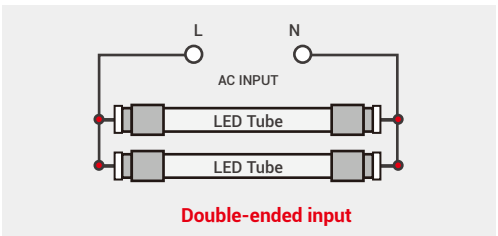
* Warning: Check Ballast Compatibility List before installation

1. Turn power off.
2. Remove lens or diffuser, if applicable.
3. Remove existing fluorescent lamp(s) from the luminaire.
4. Install the LED replacement lamp(s), one lamp for each fluorescent lamp removed*.
5. Replace lens or diffuser back in place, if applicable.
6. Turn power back on.



TYPE B INSTALLATION BY-PASS REPLACEMENT (WITHOUT BALLAST)

Connected to the power supply in double-ended mode.



4FT T8 LED TUBE LIGHT (TYPE A+B)

WS-ALT8-4FTAB-M24W-CCT

DESCRIPTION

T8 LED Tube | Type A+B | Single or Double Ended | 10-24W | 3500K-6500K | 4FT

CONSTRUCTION

Plastic / Aluminum | 4' LED T8 Tubes | G-13 Base

ELECTRICAL

Compatible with most instant- and programmed-start electronic T8 ballasts. Bypass ballast runs on 120-277V line voltage.

INSTALLATION

Type A+B (Single-end or Double-end Wiring).

APPLICATIONS

Office Buildings/Schools/Factories/Hospitals
Suitable for dry and damp indoor locations.
Working temperature -4°F to 113°F (-20°C to 45°C).

LISTING

ETL, DLC, FCC

WARRANTY

5 Years Limited Warranty, Rated for 50,000 hours.

FEATURES

Bulb Type	T8 LED
Base Type	G13
Size	4FT
5Wattage	10W/12W/15W/18W/24W (Selectable)
5CCT	3500K/4000K/5000K/ 5700K/6500K (Selectable)
Efficiency	127-150lm/W
Input Voltage	120-277V AC
Frequency Range	50/60Hz
Ballast Compatibility	Type A+B
Wire Connection	Single-end or Double-end Wiring
Cover	Frosted / Clear
CRI	>80
PF	>0.95
THD	<=20%
Beam Angle:	120°
IP Rating	IP 20
Lifetime	50,000 hours

4FT T8 LED TUBE LIGHT (TYPE A+B)

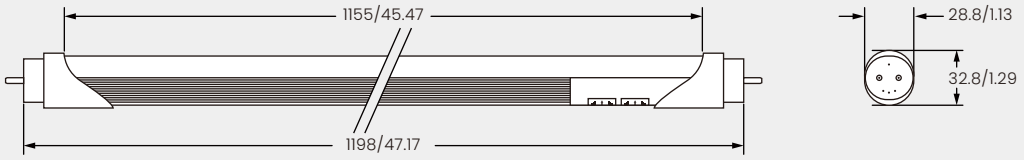
WS-ALT8-4FTAB-M24W-CCT

ORDERING INFORMATION

Model	Size	Wattage	Voltage	Lumens	Efficacy	CCT	Dimensions
WS-ALT8-4FTAB-M24W-CCT	4FT	10W, 12W, 15W, 18W, 24W (Selectable)	120-277V	1500lm, 1750lm, 2100lm, 2430lm, 3050lm	127-150 lm/W	3500K, 4000K, 5000K, 5700K, 6500K (Selectable)	47.17"L x 1.13"W x 1.29"H

PHYSICAL SPECIFICATIONS

Unit: mm/inch

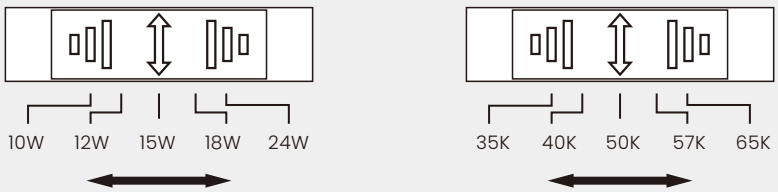


Dimensional tolerances: (+1.5mm, -1.0mm)

WEIGHT INFORMATION

1 Piece
0.51 lbs.

WATTAGE AND CCT SWITCHABLE

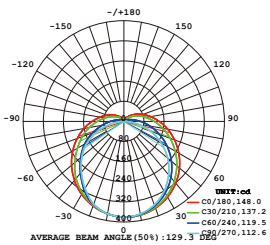


Slide dial switch to get the desired wattage & color temperature.

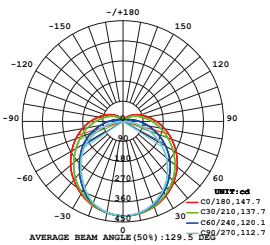
PHOTOMETRIC DATA

Polar Curve

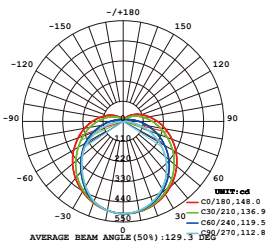
10W



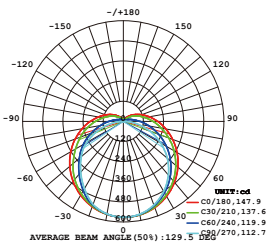
12W



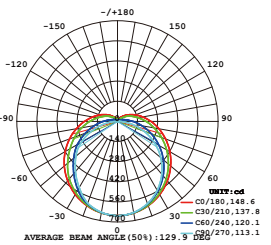
15W



18W



24W

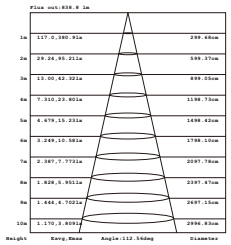


4FT T8 LED TUBE LIGHT (TYPE A+B)

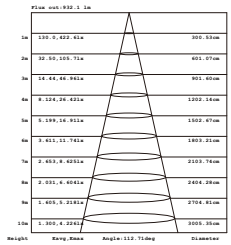
WS-ALT8-4FTAB-M24W-CCT

Cone Chart

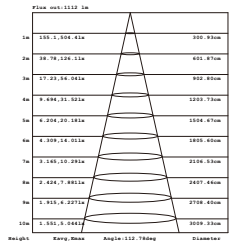
10W



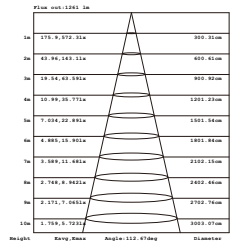
12W



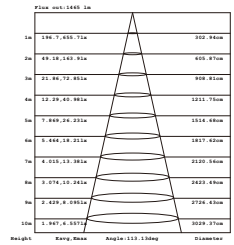
15W



18W



24W



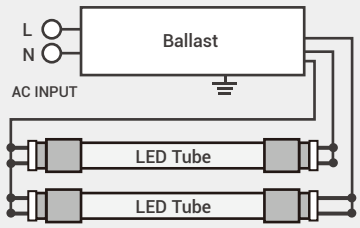
INSTALLATION INSTRUCTIONS

TYPE A INSTALLATION DIRCT REPLACEMENT (WITH EXISTING BALLAST)

* Warning: Check Ballast Compatibility List before installation

1. Turn power off.
2. Remove lens or diffuser, if applicable.
3. Remove existing fluorescent lamp(s) from the luminaire.
4. Install the LED replacement lamp(s), one lamp for each fluorescent lamp removed.
5. Replace lens or diffuser back in place, if applicable.
6. Turn power back on.

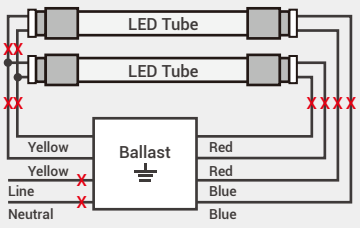
PLUG & PLAY



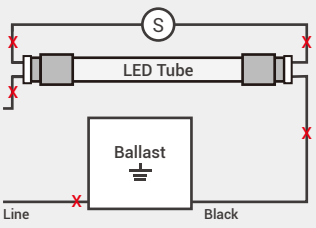
TYPE B INSTALLATION BY-PASS REPLACEMENT (WITHOUT BALLAST)

1. Disconnect power from fixture.
2. Remove fluorescent lamps.
3. Remove lens and wiring compartment, if applicable.
4. Cut all wires connected to ballast (see **Figure A**: Typical Ballast Configurations).

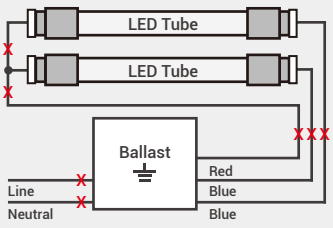
Figure A



PROGRAM START

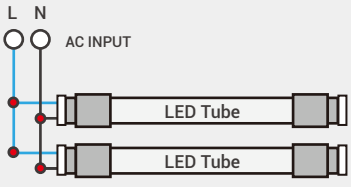


PREHEAT WITH STARTER

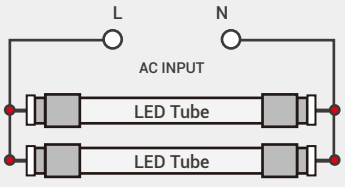


INSTANT START

BY-PASS



Single-ended input



Double-ended input