



Warnings

To guarantee the best performances and the full use of functions, make sure to download on your device the last release of CASAMBI APP.

- Functionality test are done on all dimmers to ensure the right working. In case the device is still paired to “Dalcnet network”, you are asked to unpair it by following the instructions on CASAMBI APP.
- Whenever CASAMBI APP requires an upgrade of the profile installed in the LED Dimmers, follow the instruction to do it. This allows you to stay always up to date and benefit of new functions released.

Check the available profiles on the product manual in our website:
<http://www.dalnet.com>

CASAMBI



FEATURES

- DIMMER+DRIVER CASAMBI
- Input: DC 12-24 Vdc
- Command: APP CASAMBI
- Local Command: N°4 Push Buttons Normally Open (N.O.)
- Control: Dimmer White, Tunable White, Color RGB, RGBW or RGB+W
- Control for luminaires with Direct and Indirect Light
- Voltage or Current output for LED strip
- Typical efficiency >95%
- Extended temperature range
- 100% Functional Test



➤ PRODUCT DESCRIPTION

This DLX1224 at 4 channels with CASAMBI module allows to control all kind of leds: White, Tunable White, RGB and RGBW.

Through this Dalcnet device it is possible to adjust the luminous brightness, to create multiple color scenes and settle color games, thanks to all commands available on "CASAMBI APP". The device is also provide with 4 analog input (n°4 Push Buttons Normally Open) to control up to four different scenes.

With Casambi APP it is possible to control Led lights just from one view, by taking a photo of the lamps in a room, or by creating different scenarios.

Controlling all your lamps from one view. it is possible to control all your lighting fixtures with one view, individually or as a group. For example it is possible create a group of lights within home (eg. bedroom, kitchen, etc..) as in the workplace (eg. offices, showroom, etc..) and turn all off / on or dim with just one tap

Control your lights from a photo. It is possible to control only the lights you desire, just taking a photo of the room, and putting the icon of the lamp on the real position.

Create scenes for different lighting situations: Thanks to this function it is possible to create and store on the app many scenarios with different levels of brightness, different color temperature or RGB scenes.

Download the free Casambi APP on APP STORE and GOOGLE PLAY.

Necessary conditions for a correct function are:

- Devices with O.S. APPLE iOS 8.2 o later version
- Devices with O.S. ANDROID 4.4 o later version
- Normally Open Push Buttons (N.O.)
- Casambi App, download for free on App Store and Google Play



➔ For the whole and updated **Device Manual** refer to producer's website: <http://www.dalcnet.com>

➔ For the correct functioning of **CASAMBI APP** refer to the CASAMBI website: <https://support.casambi.com/support/home>

➤ PRODUCTS CODE

CONSTANT CURRENT VARIANTS (common anode)

CODE	Supply voltage	Output	Channels	Commands
DLX1224-4CC350-CASAMBI	12-24V DC	4x350mA	4	APP CASAMBI – 4 push buttons N.O.
DLX1224-4CC500-CASAMBI	12-24V DC	4x500mA	4	APP CASAMBI – 4 push buttons N.O.

The factory default profile of the product is DLX4-CBM-RGB+W variant RGB+W

In case you want to use profiles like DLX4-CBM-W (White), DLX4-CBM-TW (Tunable White), DLX4-CBM-RGB (RGB) or DLX4-CBM-RGBW variant RGBW, etc, it is necessary to log in Casambi APP and download the desired profile. Warning: unpair the Dimmer Led by any Network Casambi.

CONSTANT VOLTAGE VARIANTS (common anode)

CODE	Supply voltage	Output	Channels	Commands
DLX1224-4CV-CASAMBI	12-24V DC	4 x 5A (max 10A tot)	1	APP CASAMBI – 4 push button N.O.

The factory default profile of the product is DLX4-CBM-RGB+W variant RGB+W

In case you want to use profiles like DLX4-CBM-W (White), DLX4-CBM-TW (Tunable White), DLX4-CBM-RGB (RGB) or DLX4-CBM-RGBW variant RGBW, etc, it is necessary to log in Casambi APP and download the desired profile. Warning: unpair the Dimmer Led by any Network Casambi.

➤ PROTECTIONS

		CC	CV
OTP	Over temperature protection ¹	✓	✗
OVP	Over voltage protection ²	✓	✓
UVP	Under voltage protection ²	✓	✓
RVP	Reverse polarity protection ²	✓	✓
IFP	Input fuse protection ²	✓	✓
OCP	Open circuit protection	✓	✗
CLP	Current limit protection	✓	✗

➤ TYPE OF PROFILES

PROFILE	Supply Voltage	Output	Channels	Commands	
DLX4-CBM-W	12-24V DC	4 x CC/CV	4	APP CASAMBI – push buttons N.O.	DIMMER
DLX4-CBM-2CH DIRECT/INDIRECT	12-24V DC	2 x CC/CV	2	APP CASAMBI – push buttons N.O.	DIRECT/INDIRECT
DLX4-CBM-Dim to Warm	12-24V DC	2 x CC/CV	2	APP CASAMBI – push buttons N.O.	DIM TO WARM
DLX4-CBM-TW	12-24V DC	2 x CC/CV	2	APP CASAMBI – push buttons N.O.	TUNNABLE WHITE
DLX4-CBM-TW 2700-6000K	12-24V DC	2 x CC/CV	2	APP CASAMBI – push buttons N.O.	TUNNABLE WHITE
DLX4-CBM-TW 3000-5000K	12-24V DC	2 x CC/CV	2	APP CASAMBI – push buttons N.O.	TUNNABLE WHITE
DLX4-CBM-RGB	12-24V DC	3 x CC/CV	3	APP CASAMBI – push buttons N.O.	RGB
DLX4-CBM-RGBW	12-24V DC	4 x CC/CV	4	APP CASAMBI – push buttons N.O.	RGBW
DLX4-CBM-RGB+W	12-24V DC	4 x CC/CV	3+1	APP CASAMBI – push buttons N.O.	RGB W

¹ Thermal Protection on the output channel in case of high temperature. The thermal intervention is detected by transistor or current regulation (depending of the booster variant).

² Only control logic protection



➤ REFERENCE STANDARDS

EN 61347-1	Lamp controlgear - Part 1: General and safety requirements
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547	Equipment for general lighting purposes - EMC immunity requirements
EN 50581	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

➤ TECHNICAL SPECIFICATIONS

		Variants						
		Constant current			Constant voltage			
Supply voltage		DC min: 10.8 Vdc .. max: 26.4 Vdc						
Output voltage		min: $V_{in}/4$ - max: $V_{in}-0,9V$			= V_{in}			
Input current		max 2A			max 10A			
Output current		Variant 350 mA		Variant 500 mA		max 5 A/ch	max 10 A total ³	
		350mA/ch	max 1,4 A total	500mA/ch	max 2 A total			
		1ch	max 4ch	1ch	max 4ch			
Nominal power ⁴		@12V	4,2W/ch	16,8 W	6W/ch	24 W	60W/ch	120 Wmax
		@24V	8,4W/ch	33,6 W	12W/ch	48 W	120W/ch	240 Wmax
Power loss in standby mode		<500mW			<500mW			
Type of Load		R-L-C			R			
Thermal shutdown ⁵		150°C			-			
D-PWM dimming frequency		600 Hz ⁶						
D-PWM resolution		833 Step ⁶						
Operating frequencies		2,400...2,483GHz ⁶						
Maximum output power		4dBm ⁶						
Storage temperature		min: -40 max: +60 °C						
Ambient temperature		min: -10 max: +40 °C						
Wiring		2.5mm ² solid – 1.5mm ² stranded – 30/12 AWG						
Wire preparation length		5,5 – 6,5 mm						
Protection grade		IP20						
Casing material		Plastic						
Packaging unit (pieces/unit)		Single Carton Box 1pz						
Mechanical dimension		88 x 54 x 25 mm						
Packaging dimension		106 x 59 x 36 mm						
Weight		80g						

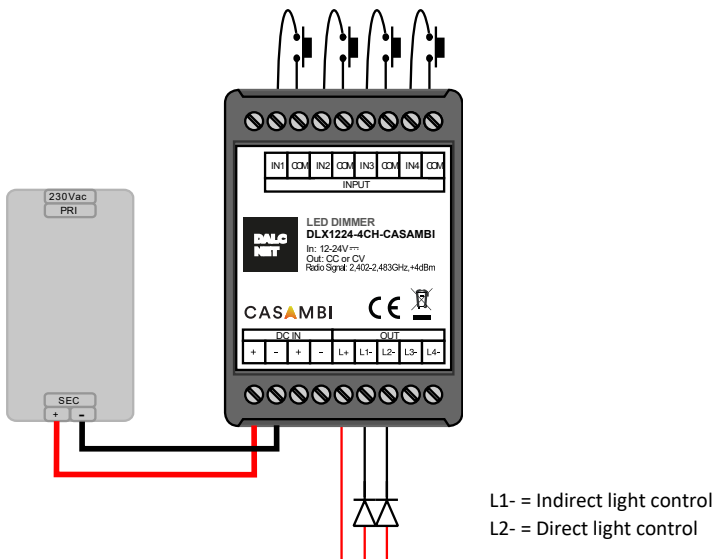
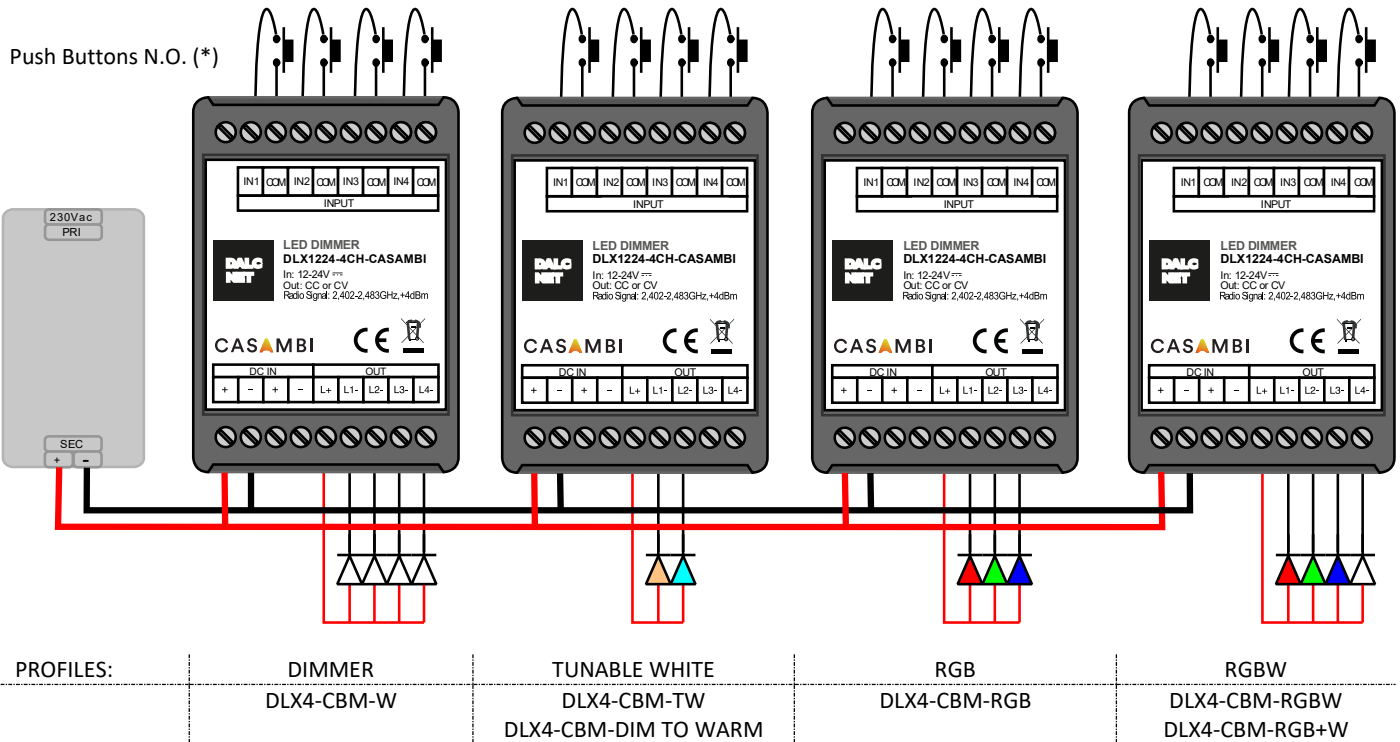
³ For the voltage version the device provides max 10A ($I_{tot} = I_{L1} + I_{L2} + I_{L3} + I_{L4}$). Each channel provides max 5A.

⁴ Maximum value, depends on the ventilation conditions.

⁵ Thermal Protection on the output channel in case of high temperature. The thermal intervention is detected by current regulation (depending of the booster variant).

⁶ The values depend on the configuration of the Casambi module.

➤ INSTALLATION



PROFILES: DIMMER
DLX4-CBM-2CH DIRECT/INDIRECT

*For the control with the Push Buttons N.O. see the documentations in the website: <https://support.casambi.com/support/home>.

Note: For the length of the cables see the Technical Note

➤ TECHNICAL NOTE:

Installation:

- Installation and maintenance must be performed only by qualified personnel in compliance with current regulations.
- The product must be installed in a vertical or horizontal position with the cover / label upwards or vertically; Other positions are not permitted. It is not permitted to bottom-up position (with the cover / label down).
- Keep separated the circuits at 230V (LV) and the circuits not SELV from circuits to low voltage (SELV) and from any connection with this product. It is absolutely forbidden to connect, for any reason whatsoever, directly or indirectly, the 230V mains voltage to the bus or to other parts of the circuit.

Power supply:

- For the power supply use only a SELV power supplies with limited current, short circuit protection and the power must be dimensioned correctly. In case of using power supply with ground terminals, all points of the protective earth (PE = Protection Earth) must be connected to a valid and certified protection earth.
- The connection cables between the power source "low voltage" and the product must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. It is recommended to use double insulated cables.
- Dimension the power supply for the load connected to the device. If the power supply is oversized compared with the maximum absorbed current, insert a protection against over-current between the power supply and the device.
- For the constant current output, the voltage of LED module (Vf) must be less of 5V at the voltage of power supply.

Command:

- The length of the connection cables between the local commands (N.O. Push button or other) and the product must be less than 10m; the cables must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. It is recommended to use shielded and twisted cables.
- All the product and the control signal connect at the local command (N.O. Push button or other) must be SELV (the devices connected must be SELV or supply a SELV signal)

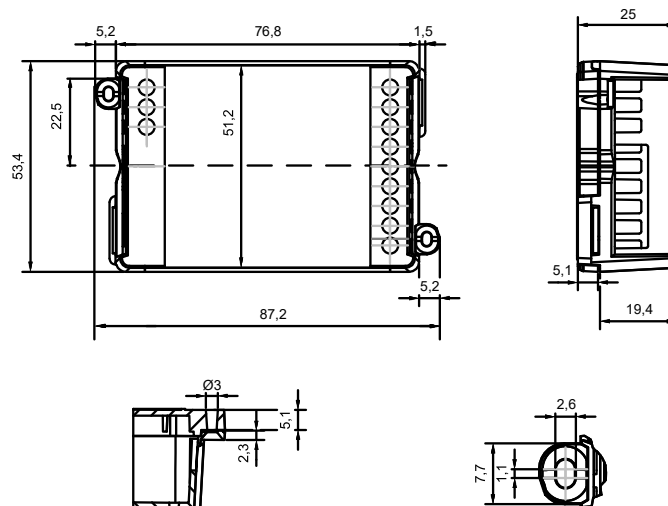
Outputs:

- The length of the connection cables between the product and the LED module must be less than 10m; the cables must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. It is recommended to use shielded and twisted cables.

WARNING: For optional functionality of the Bluetooth signal, do not put the device into metal or aluminium boxes and do not shield the device.

As any other Bluetooth product, should not be placed in a metal enclosure or next to large metal structures. Metal will effectively block all radio signal which are crucial to the operation of the product.

➤ MECHANICAL DIMENSIONS:





Features

- Wide input range 100~305VAC(Class I)
- Full power output at 70~100% Constant power mode operation
- Metal case with IP67, suitable for outdoor application
- LVLE(H type),Class 2(24V)power unit
- Surge protection with 6KV/4KV (10KV/6KV optional)
- 3 in 1 dimming function (Dim to off and Isolation design)
- India (EESL) version with Input Over Voltage Protection can survive input voltage stress of 440Vac for 48 hours
- Protection functions: OVP/SCP/OCP/OTP
- Comply with UL Class P
- Life time >50,000 hrs. and 5 years warranty

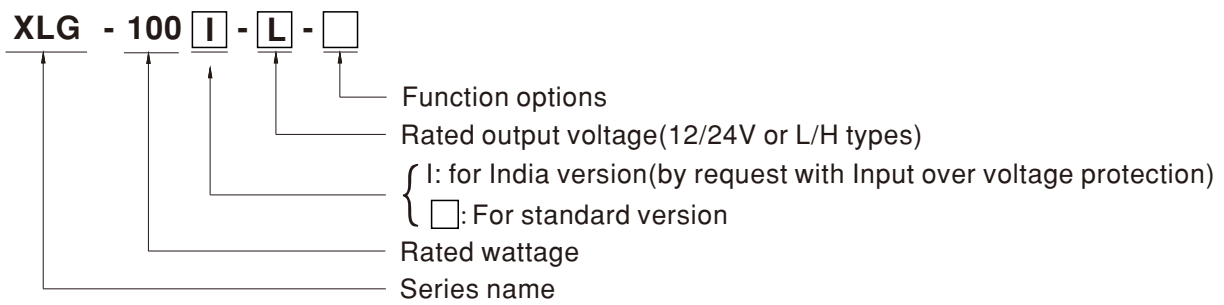
Applications

- Skyscraper lighting
- Street lighting
- Floodlight Lighting
- Stage lighting
- Fishing lighting
- Horticulture lighting
- Bay lighting
- DMX power supply
- Type HL for use in class I , Division 2

Description

XLG-100 series is a 100W LED AC/DC driver featuring the constant power mode.XLG-100 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 8000mA. Thanks to the high efficiency up to 92%, with the fanless design, the entire series is able to operate for -40°C~+90°C case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. Moreover the innovative environment-adaptive capability allows this series to reliably light on the LEDs for all kinds of application environments in almost any spots that may install LED luminaires in the world. XLG-100 series comply with the latest version of IEC61347/GB19510.1 and UL8750 international safety regulations. The output and dimming circuit are also completely in accordance with the new regulations with isolation to ensure the safety of both user and luminaire system during installation.

Model Encoding



Type	Function	Note
Blank	Io and Vo fixed. (For harsh environment)	By request
A	Io adjustable via built-in potentiometer	In Stock
AB	Io adjustable via built-in potentiometer +3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock

Note: 1.12V and 24V models without the AB type
 2.India version needs MOQ for production, please consult MEANWELL for detail

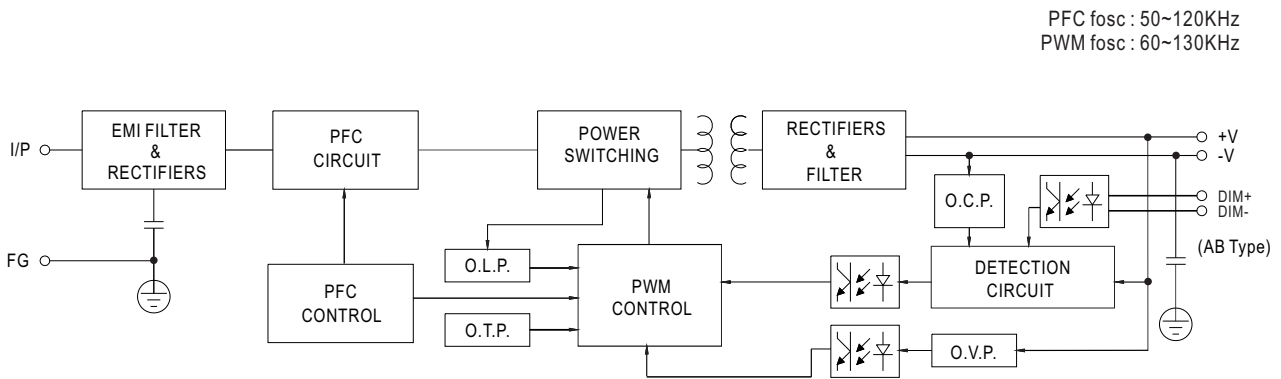
SPECIFICATION

MODEL		XLG-100□-12-□	XLG-100□-24-□	
OUTPUT	DC VOLTAGE	12V	24V	
	CONSTANT CURRENT REGION <small>Note.2</small>	8.4~ 12V	16.8~ 24V	
	RATED CURRENT (Default)	8A	4A	
	RATED POWER	96W	96W	
	RIPPLE & NOISE (max.) <small>Note.3</small>	150mVp-p	240mVp-p	
	CURRENT ADJ RANGE	Adjustable for A-Type only (via the built-in potentiometer)		
		4 ~ 8A	2~4A	
	VOLTAGE TOLERANCE <small>Note.4</small>	±3.0%	±2.0%	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±2%	±1%	
SETUP, RISE TIME <small>Note.6</small>	500ms, 100ms/230VAC, 1200ms, 100ms/115VAC			
HOLD UP TIME (Typ.)	12ms/ 230VAC 12ms/ 115VAC			
INPUT	VOLTAGE RANGE <small>Note.5</small>	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR	PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.92/277VAC@full load		
	TOTAL HARMONIC DISTORTION	THD < 10% (@load ≥ 50%/115VAC, 230VAC; @load ≥ 75%/277VAC)		
	EFFICIENCY (Typ.)	92%	92%	
	AC CURRENT	1.1A / 115VAC 0.5A / 230VAC 0.42A/277VAC		
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300μs measured at 50% Ipeak) at 230VAC; Per NEMA 410		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	8units (circuit breaker of type B) / 14 units (circuit breaker of type C) at 230VAC		
	LEAKAGE CURRENT	<0.75mA / 277VAC		
	NO LOAD POWER CONSUMPTION	No load power consumption <0.5W(for standard version)		
	PROTECTION	OVER CURRENT	95 ~ 108% Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed	
SHORT CIRCUIT		Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed		
OVER VOLTAGE		13.5 ~ 18V	27 ~ 34V	
		Shut down output voltage, re-power on to recover		
INPUT OVER VOLTAGE <small>Note.7</small>		320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is removed) Can survive input voltage stress of 440Vac for 48 hours		
OVER TEMPERATURE		Shut down output voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +90℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)		
	MAX. CASE TEMP.	Tcase=+90℃		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60℃)		
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
EMC SAFETY &	SAFETY STANDARDS <small>Note.7</small>	UL8750(type"HL"), UL879, CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384; GB19510.1, GB19510.14;EAC TP TC 004:J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-2-13, IS15885(Part2/Sec13)(for XLG-100I type only);NOM-058-SCFI-2017(except for Blank type); IP67 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH		
	EMC EMISSION	Parameter	Standard	Test Level/Note
		Conducted	BS EN/EN55015(CISPR15) ,GB/T17743	-----
		Radiated	BS EN/EN55015(CISPR15) ,GB/T17743	-----
		Harmonic Current	BS EN/EN61000-3-2 , GB/T17625.1	Class C @load ≥ 50%
		Voltage Flicker	BS EN/EN61000-3-3	-----
	EMC IMMUNITY	BS EN/EN61547		
		Parameter	Standard	Test Level/Note
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact
		Radiated	BS EN/EN61000-4-3	Level 3
		EFT/Burst	BS EN/EN61000-4-4	Level 3
		Surge	BS EN/EN61000-4-5	4KV/Line-Line 6KV/Line-Earth(6K/10K option)
		Conducted	BS EN/EN61000-4-6	Level 3
Magnetic Field		BS EN/EN61000-4-8	Level 4	
Voltage Dips and Interruptions		BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods	
OTHERS		MTBF	2782.6K hrs min. Telcordia SR-332 (Bellcore); 276.4Khrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	140*63*32mm (L*W*H)		
	PACKING	0.58Kg;24pcs /15Kg /0.85CUFT		
NOTE	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. Input voltage only for XLG-100 I series, and I series without UL/CSA certificate. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-quality EMC Directive on the complete installation again. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly Ⓢ point (or TMP, per DLC), is about 80℃ or less. Products sourced from the Americas regions may not have the PSE/CCC/BIS/KC logo. Please contact your MEAN WELL sales for more information. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to the mains. If you need the NOM (Mexico) certificate, Please contact MEAN WELL sales representative for details. 			

SPECIFICATION

MODEL		XLG-100 □-L-□	XLG-100 □-H-□	
OUTPUT	RATED CURRENT (Default)	700mA	2100mA	
	RATED POWER	100W	100W	
	CONSTANT CURRENT REGION	71 ~ 142V	27 ~ 56V	
	FULL POWER CURRENT RANGE	700~1050mA	1750~2780mA	
	OPEN CIRCUIT VOLTAGE (max.)	149V	60V	
	CURRENT ADJ. RANGE	350~1050mA	875~2780mA	
	CURRENT RIPPLE	3.0%(@rated current)		
	CURRENT TOLERANCE	±5%		
	SET UP TIME	500ms/230VAC, 1200ms/115VAC		
INPUT	VOLTAGE RANGE Note.5	100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" and "DRIVING METHODS OF LED MODULE" section)		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF ≥ 0.97 / 115VAC, PF ≥ 0.95 / 230VAC, PF ≥ 0.92 / 277VAC at full load (Please refer to "Power Factor Characteristic" section)		
	TOTAL HARMONIC DISTORTION	THD < 10% (@ load ≥ 50% at 115VAC/230VAC, @load ≥ 75% at 277VAC) Please refer to "TOTAL HARMONIC DISTORTION (THD)" section		
	EFFICIENCY (Typ.)	92.5%	91%	
	AC CURRENT (Typ.)	1.1A / 115VAC	0.5A / 230VAC	0.42A / 277VAC
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300μs measured at 50% I _{peak}) at 230VAC; Per NEMA 410		
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	8 unit(circuit breaker of type B) / 14 units(circuit breaker of type C) at 230VAC		
	LEAKAGE CURRENT	<0.75mA / 277VAC		
	STANDBY POWER CONSUMPTION	Standby power consumption <0.5W for AB-Type(Dimming OFF)(for standard version)		
PROTECTION	OVER POWER	105 ~ 150% Hiccup mode, recovers automatically after fault condition is removed		
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed		
	OVER VOLTAGE	160 ~ 220V	66 ~ 90V Shut down output voltage, re-power on to recover	
	INPUT OVER VOLTAGE Note.7	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is removed) Can survive input voltage stress of 440Vac for 48 hours		
	OVER TEMPERATURE	Shut down output voltage, re-power on to recover		
	ENVIRONMENT	WORKING TEMP.	T _{case} = -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)	
MAX. CASE TEMP.		T _{case} = +90°C		
WORKING HUMIDITY		20 ~ 95% RH non-condensing		
STORAGE TEMP., HUMIDITY		-40 ~ +80°C, 10 ~ 95% RH non-condensing		
TEMP. COEFFICIENT		±0.03%/°C (0 ~ 60°C)		
VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
SAFETY & EMC	SAFETY STANDARDS Note.7	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384; GB19510.1, GB19510.14; EAC TP TC 004;J61347-1(H29), J61347-2-13(H29),KC61347-1,KC61347-2-13, IS15885(Part2/Sec13)(for XLG-100I type only);NOM-058-SCFI-2017(except for Blank type); IP67 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH		
	EMC EMISSION	Parameter	Standard	Test Level/Note
		Conducted	BS EN/EN55015(CISPR15) ,GB/T17743	-----
		Radiated	BS EN/EN55015(CISPR15) ,GB/T17743	-----
		Harmonic Current	BS EN/EN61000-3-2, GB/T17625.1	Class C @load≥50%
		Voltage Flicker	BS EN/EN61000-3-3	-----
	EMC IMMUNITY	BS EN/EN61547		
		Parameter	Standard	Test Level/Note
ESD		BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact	
Radiated		BS EN/EN61000-4-3	Level 3	
EFT/Burst		BS EN/EN61000-4-4	Level 3	
Surge		BS EN/EN61000-4-5	4KV/Line-Line 6KV/Line-Earth(6K/10K option)	
Conducted		BS EN/EN61000-4-6	Level 3	
Magnetic Field		BS EN/EN61000-4-8	Level 4	
Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	MTBF	2782.6K hrs min. Telcordia SR-332 (Bellcore) ; 276.4Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	140*63*32mm (L*W*H)		
	PACKING	0.58Kg;24pcs /15Kg /0.85CUFT		
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</p> <p>2. Please refer to "DRIVING METHODS OF LED MODULE".</p> <p>3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>4. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</p> <p>6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.</p> <p>7. Input voltage only for XLG-100 I series, and I series without UL/CSA certificate.</p> <p>8. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-quality EMC Directive on the complete installation again.</p> <p>9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</p> <p>11. This series meets the typical life expectancy of >50,000 hours of operation when T_{case}, particularly (T_c) point (or T_{MP}, per DLC), is about 80°C or less.</p> <p>12. Products sourced from the Americas regions may not have the PSE/CCC/BIS/KC logo. Please contact your MEAN WELL sales for more information.</p> <p>13. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf</p> <p>14. To fulfill requirements of the latest ERP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to the mains.</p> <p>15. If you need the NOM (Mexico) certificate, Please contact MEAN WELL sales representative for details.</p> <p>✘ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p>			

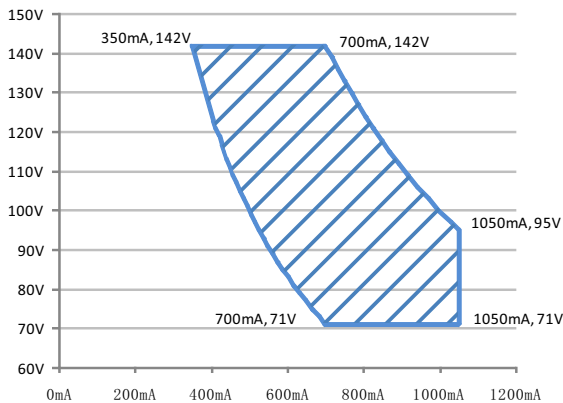
■ BLOCK DIAGRAM



■ DRIVING METHODS OF LED MODULE

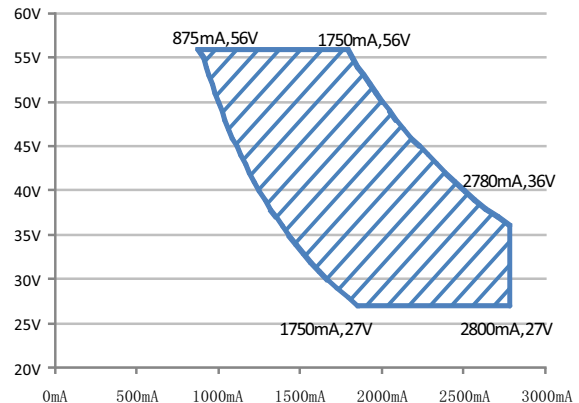
※ I-V Operating Area

◎ XLG-100-L



Recommend Performance Region

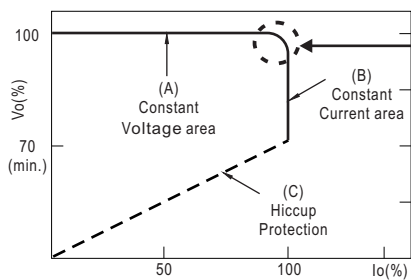
◎ XLG-100-H



Recommend Performance Region

◎ XLG-100-12,24

※ This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.

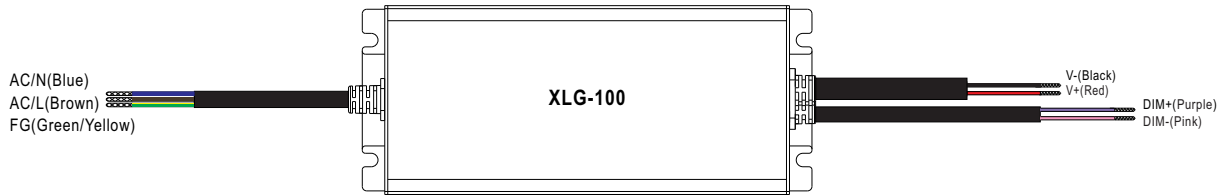


Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

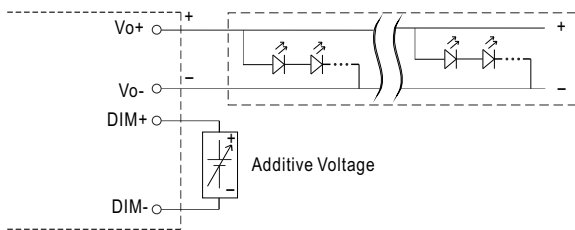
DIMMING OPERATION



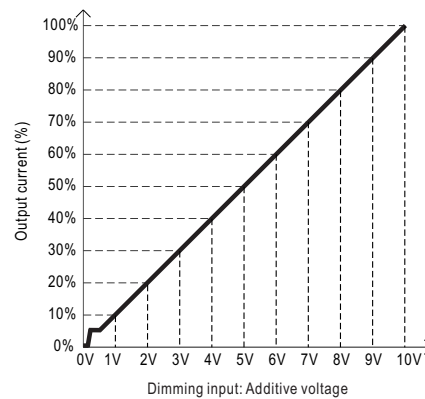
※ **3 in 1 dimming function (for AB-Type)**

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100 μ A (typ.)

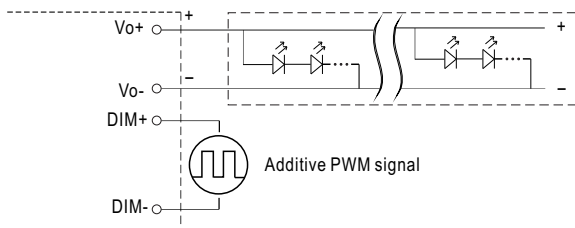
◎ Applying additive 0 ~ 10VDC



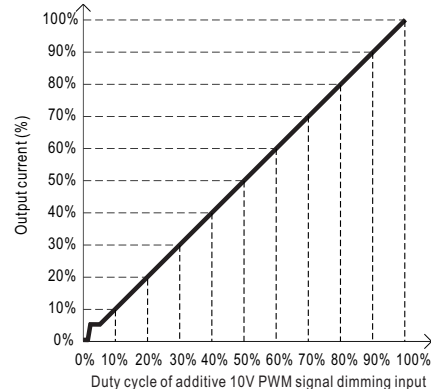
"DO NOT connect "DIM- to Vo-"



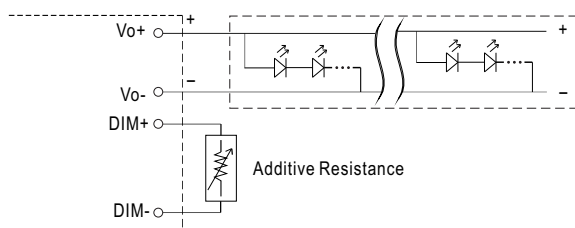
◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



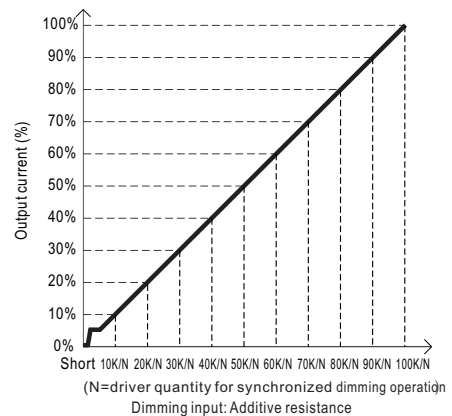
"DO NOT connect "DIM- to Vo-"



◎ Applying additive resistance:

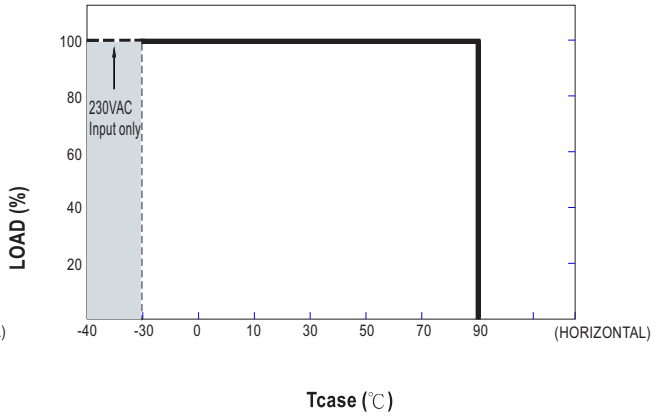
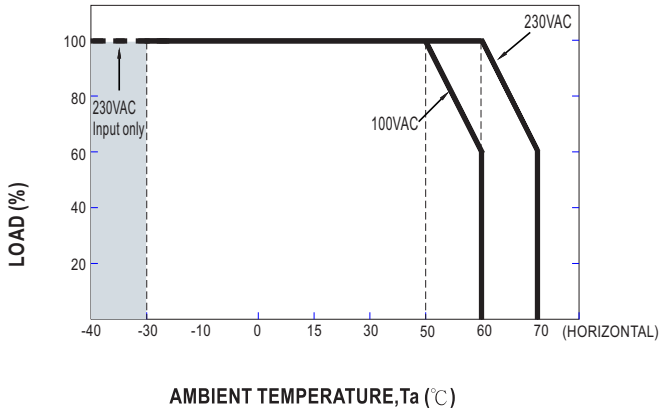


"DO NOT connect "DIM- to Vo-"



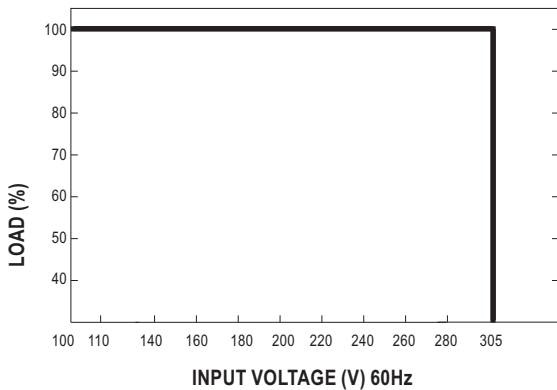
Note : 1. Min. dimming level is about 8% and the output current is not defined when 0% < I_{out} < 8%.
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

OUTPUT LOAD vs TEMPERATURE



If XLG-100 operates in Constant Current mode with the rated current the maximum workable Ta is 60°C (Typ. 230VAC) or 50°C (Typ. 100VAC)
Below 110VAC@ -30°C may retry to 2nd setup

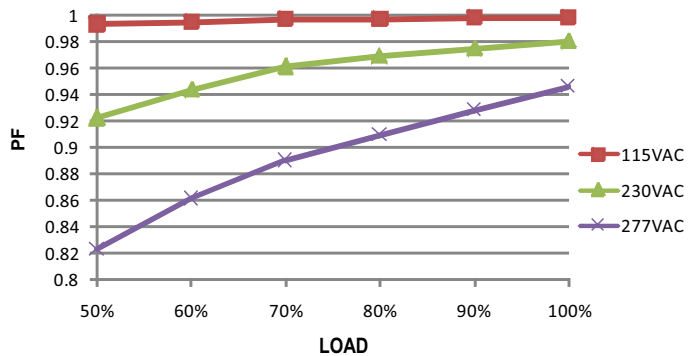
STATIC CHARACTERISTIC



POWER FACTOR (PF) CHARACTERISTIC

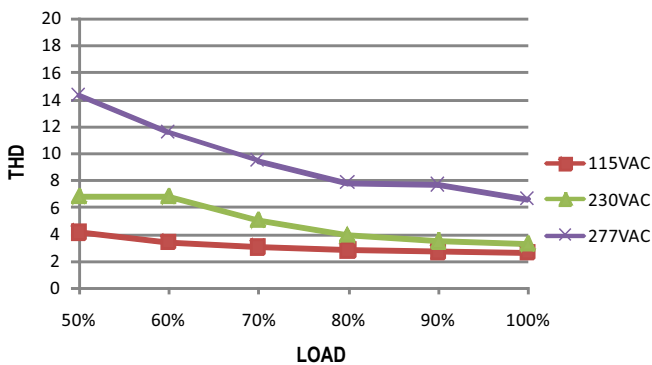
※ Tcase at 75°C

Constant Current Mode



TOTAL HARMONIC DISTORTION (THD)

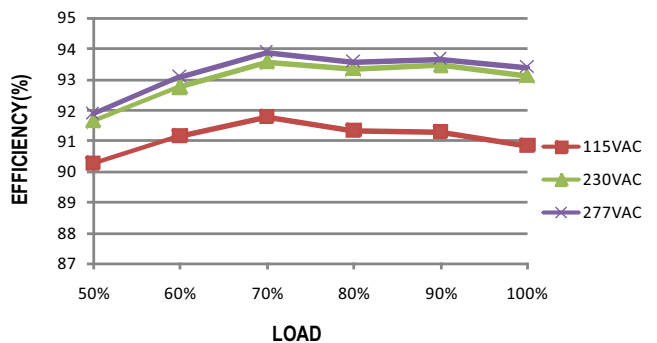
※ XLG-100-L Model, Tcase at 75°C



EFFICIENCY vs LOAD

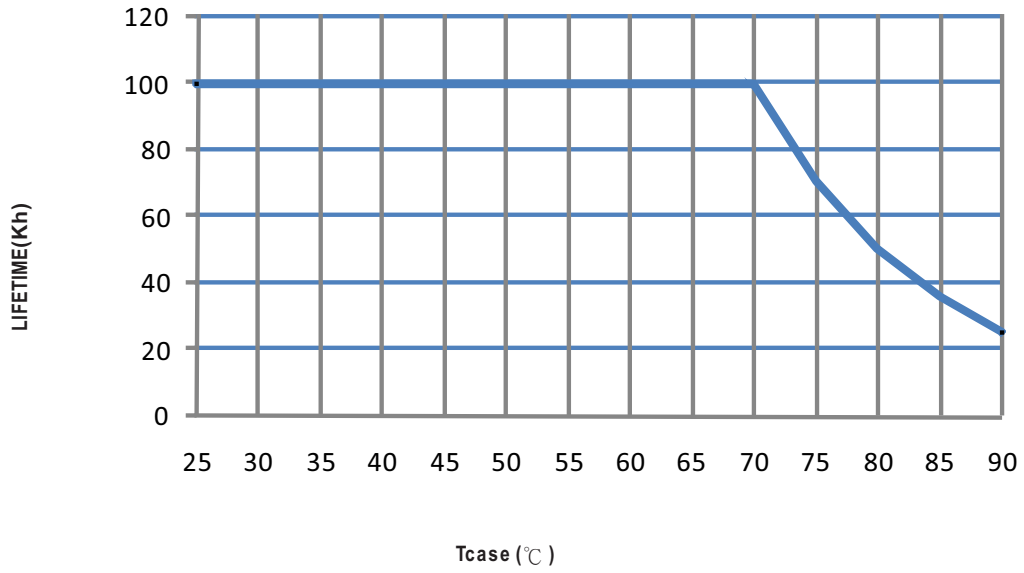
XLG-100 series possess superior working efficiency that up to 92.5% can be reached in field applications.

※ XLG-100-L Model, Tcase at 75°C





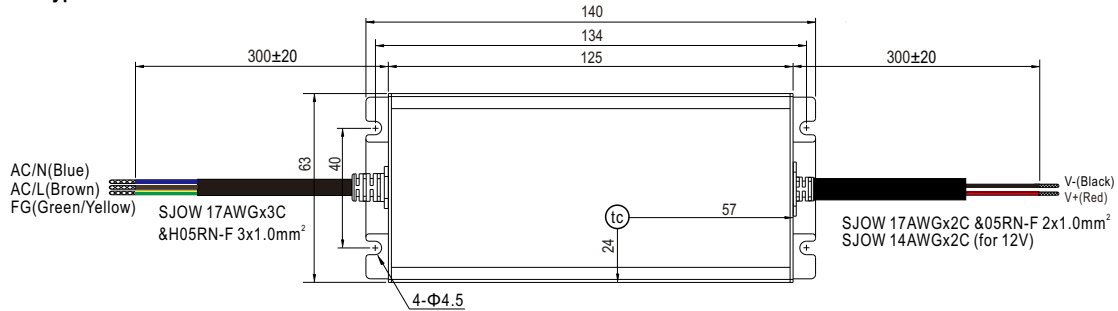
■ LIFE TIME



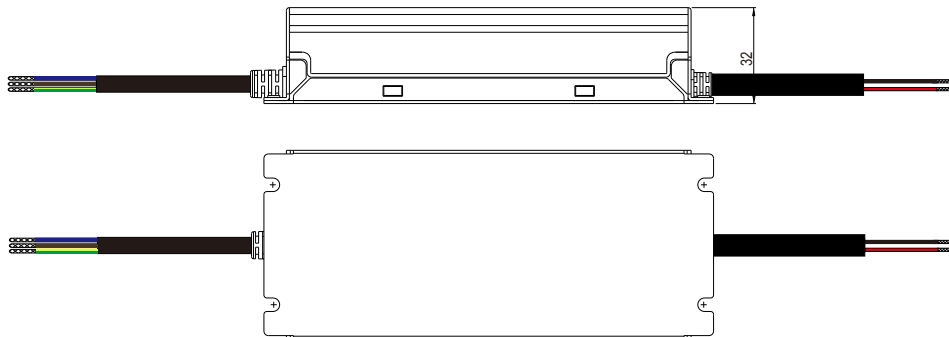
MECHANICAL SPECIFICATION

Case No.:275B Unit:mm

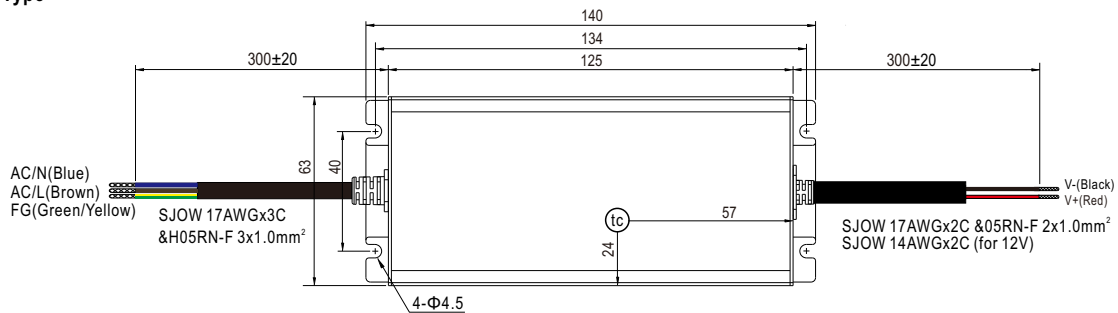
※ Blank-Type



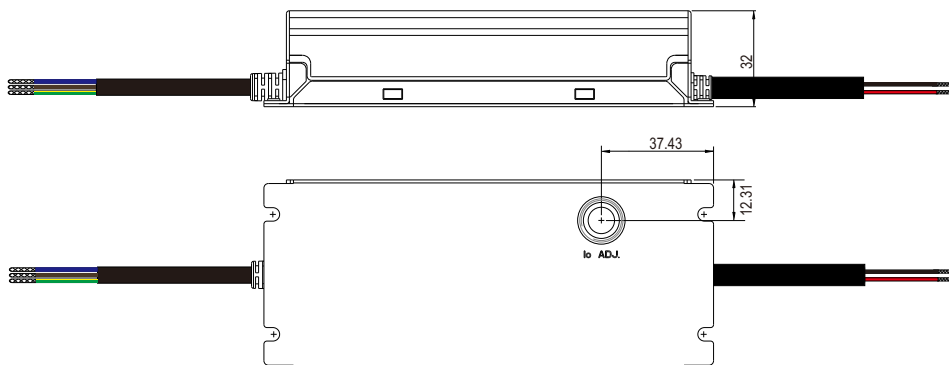
• (tc) : Max. Case Temperature



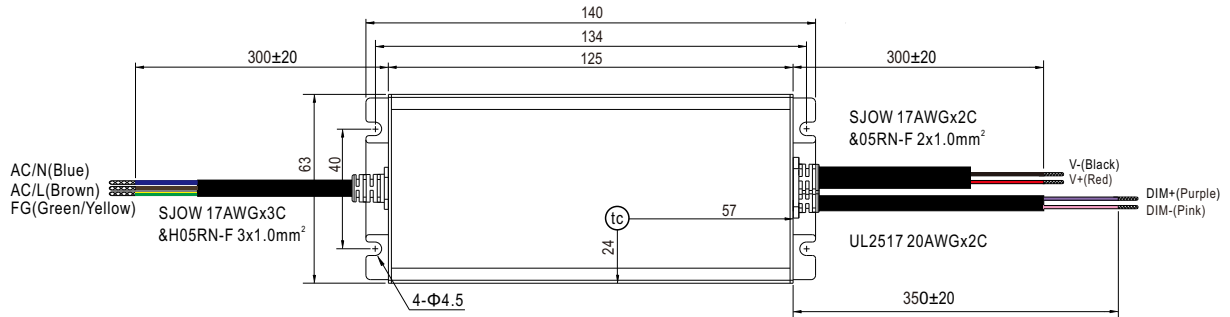
※ A-Type



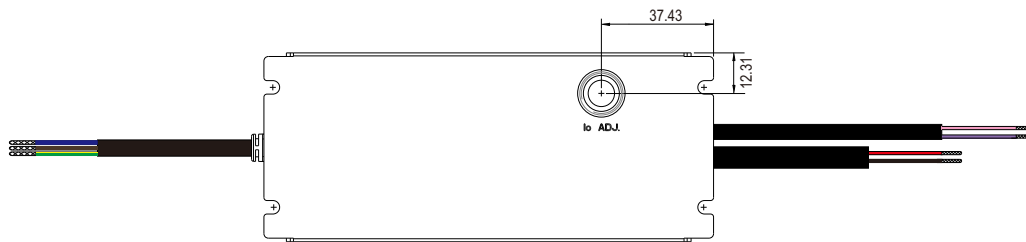
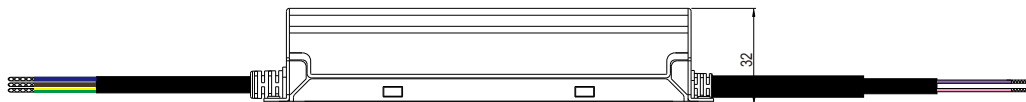
• (tc) : Max. Case Temperature



※ **AB-Type**



• (tc) : Max. Case Temperature



■ **INSTALLATION MANUAL**

Please refer to : <http://www.meanwell.com/manual.html>