MEAN WELL

50W Constant Power Mode LED Driver

XLG-50 series

SELV IP67 Type HL

Features

- Constant Power mode output
- Metal housing design with functional Ground
- Built-in active PFC function
- Class 2 power unit
- No load / Standby power consumption <0.5W
- IP67 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer
  3 in 1 dimming (dim-to-off)
- Typical lifetime>50000 hours
- 5 years warranty

Applications

- LED street lighting
- LED architectural lighting
- LED bay lighting
- LED floodlighting
- Type “HL” for use in Class I, Division 2 hazardous (Classified) location.

Description

XLG-50 series is a 50W AC/DC LED driver featuring the constant power mode output. XLG-50 operates from 100~305VAC. Thanks to the high efficiency up to 90%, with temperature under free the fanless design, the entire series is able to operate for -40℃ ~ +90℃ case air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. XLG-50 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding

XLG - 50 [I] - [A]

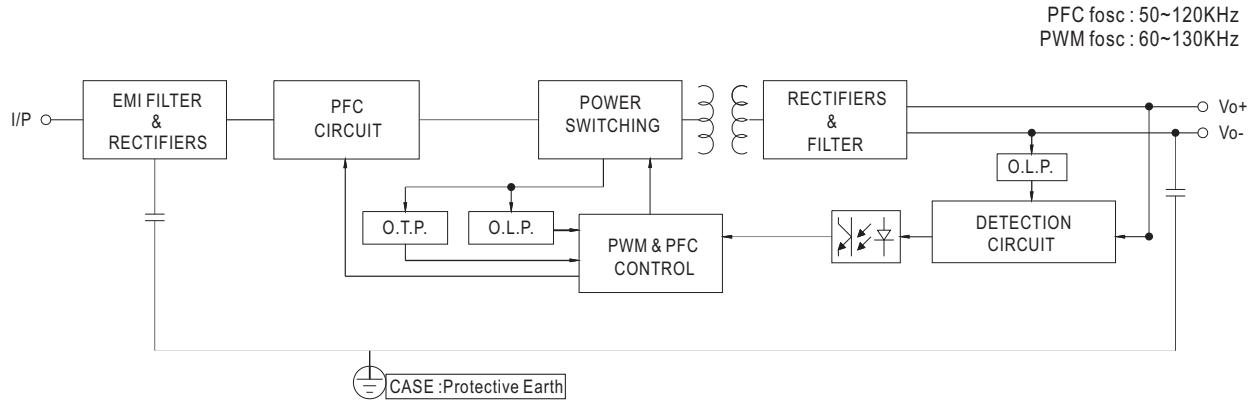
- [A]: Function mode option
- [I]: I: for India only; □: None
- 50: Rated wattage
- XLG: Series name

Type	IP Level	Function	Note
A	IP67	Io adjustable through built in potentiometer.	In Stock
AB	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock

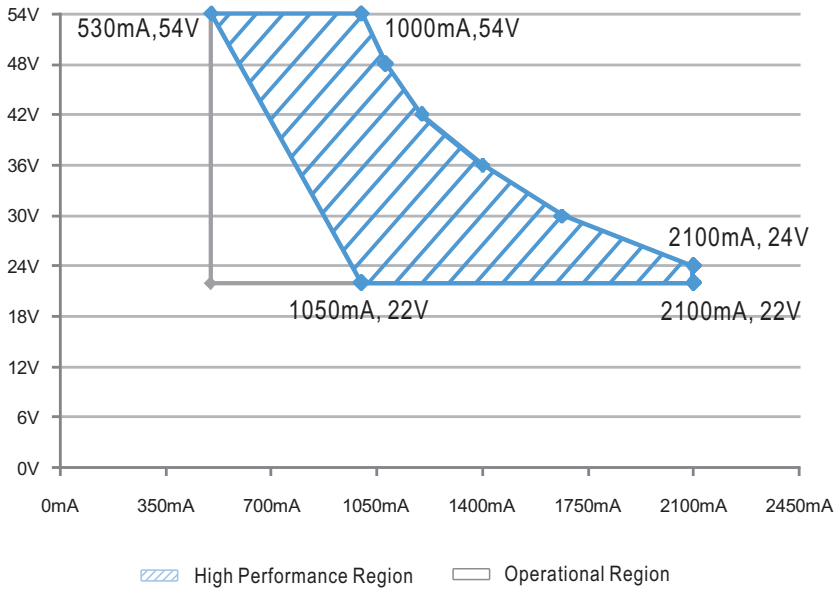
SPECIFICATION

MODEL		XLG-50
OUTPUT	RATED CURRENT	1A
	CONSTANT CURRENT REGION Note.2	22 ~54V
	RATED POWER Note.5	100VAC ~ 305VAC
		50W
	CURRENT RIPPLE	5.0% max. @rated current
	OPEN CIRCUIT VOLTAGE (max.)	57V
	CURRENT ADJ. RANGE	0.53 ~ 2.1A
	SETUP, RISE TIME Note.3	500ms, 100ms/115VAC, 230VAC
INPUT	VOLTAGE RANGE Note.5	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 (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)
	TOTAL HARMONIC DISTORTION	THD< 10%(@load≧50%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)
	EFFICIENCY (Typ.) Note.10	90%
	AC CURRENT	0.57A / 115VAC 0.29A / 230VAC 0.24A/277VAC
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=350μs measured at 50% Ipeak) at 230VAC; Per NEMA 410
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	5 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC
	LEAKAGE CURRENT	<0.75mA / 277VAC
	NO LOAD / STANDBY POWER CONSUMPTION	No load power consumption <0.5W for A, <0.75W for I series Standby power consumption <0.5W for AB
PROTECTION	Over Power Protection	110-150% Over Power Protection, recovers automatically after fault condition is removed
	Short Circuit Protection	Constant current limiting, recovers automatically after fault condition is removed
	Over Temperature Protection	Hiccup mode, recovers automatically after fault condition is removed
	INPUT OVER VOLTAGE Note.8	320 ~ 370VAC (Shut down output voltage when the input voltage exceeds protection voltage)
		can survive input voltage stress of 440Vac for 48 hours
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
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC AS/NZS IEC EN61347-1, AS/NZS EN61347-2-13 independent, EN62384; IP65 or IP67; GB19510.1, GB19510.14 approved
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC 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	Compliance to EN55015,EN61000-3-2 Class C (@load≧50%) ; EN61000-3-3; GB17743, GB17625.1
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)
OTHERS	MTBF	1252.69K hrs min. Telcordia SR-332 (Bellcore) 394.57 Khrs min. MIL-HDBK-217F (25℃)
	DIMENSION	105*63*30mm (L*W*H)
	PACKING	0.41Kg;24pcs/ 10.5Kg/0.68CUFT for A-type 0.42Kg;24pcs/ 11Kg/0.68CUFT for AB-type
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. 2. Please refer to "DRIVING METHODS OF LED MODULE". 3. 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. 4. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 5. 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-qualify EMC Directive on the complete installation again. 6. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70℃ or less. 7. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 8. Only for XLG-50 I series 9. 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). 10.Only for XLG-50-A 11.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	

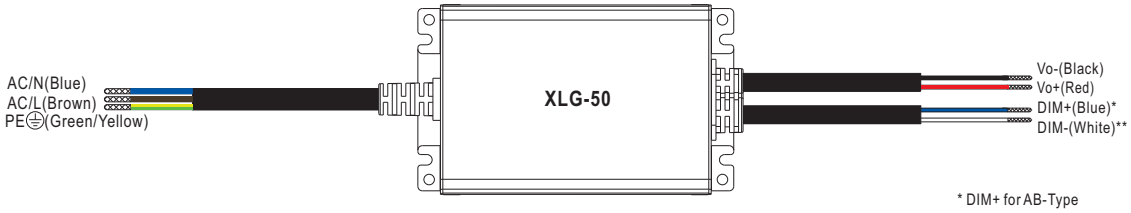
■ Block Diagram



■ DRIVING METHODS OF LED MODULE



■ DIMMING OPERATION

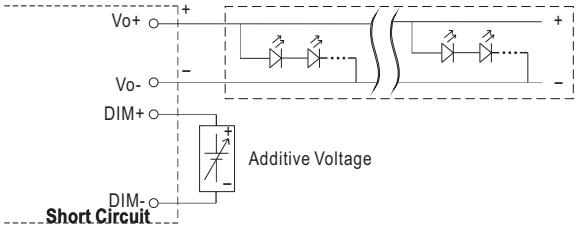


* DIM+ for AB-Type
* *DIM- for AB-Type

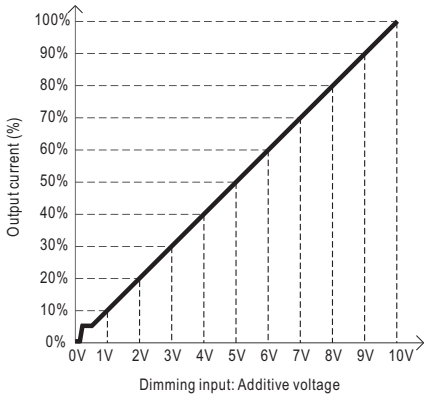
※ 3 in 1 dimming function (for AB-Type)

- 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: 100μA (typ.)

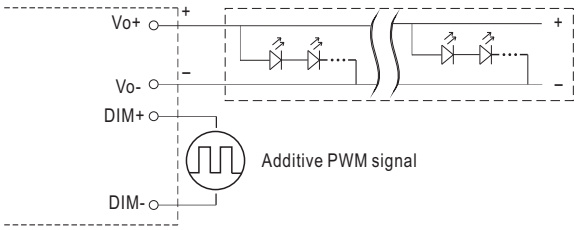
◎ Applying additive 0 ~ 10VDC



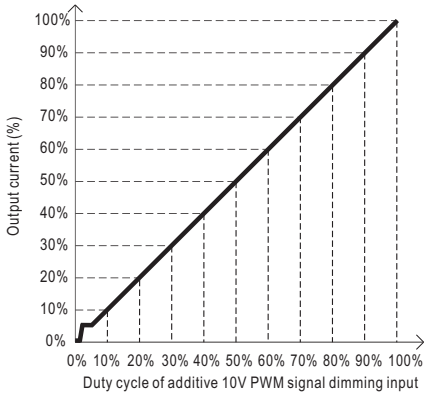
"DO NOT connect "DIM- to Vo-"



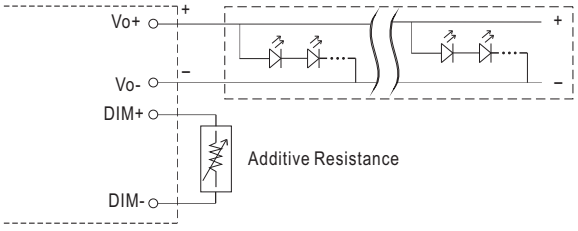
◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



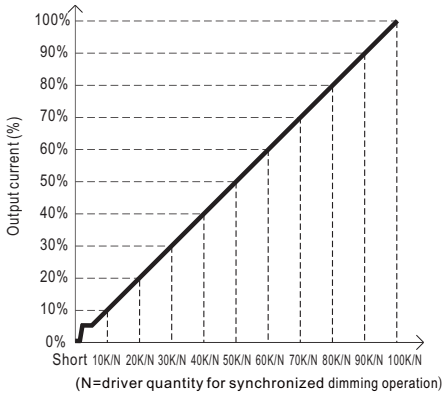
"DO NOT connect "DIM- to Vo-"



◎ Applying additive resistance:

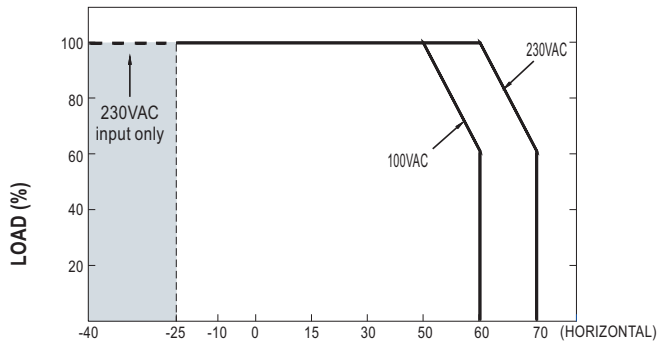


"DO NOT connect "DIM- to Vo-"

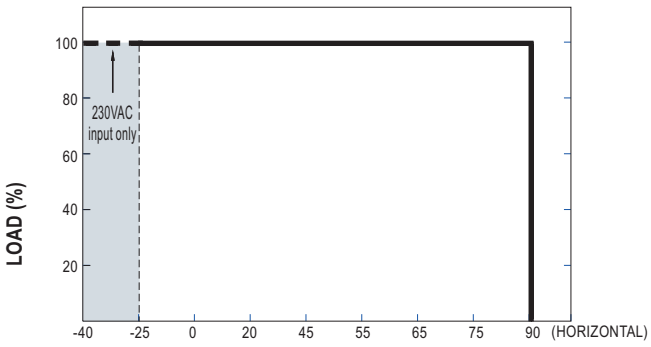


Note : 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<8%.
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

■ OUTPUT LOAD vs TEMPERATURE

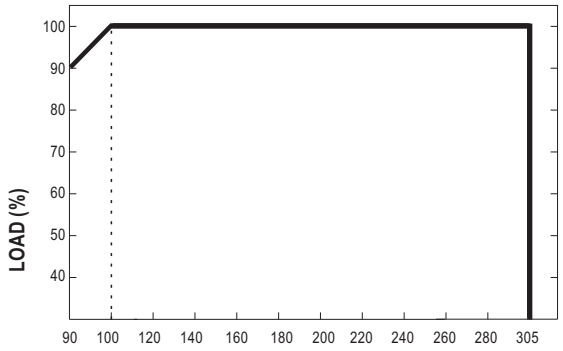


AMBIENT TEMPERATURE,Ta (℃)



Tcase (℃)

■ STATIC CHARACTERISTIC

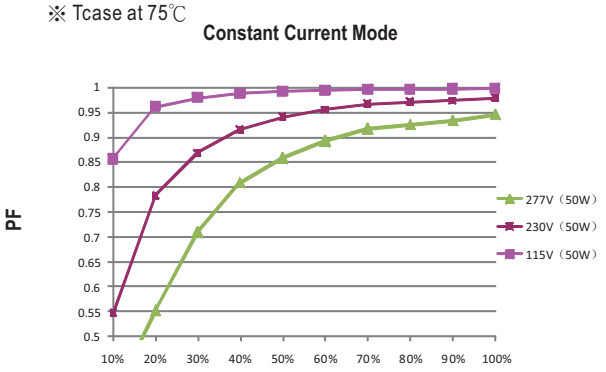


INPUT VOLTAGE (V) 60Hz

※De-rating is needed under low input voltage.

■ POWER FACTOR (PF) CHARACTERISTIC

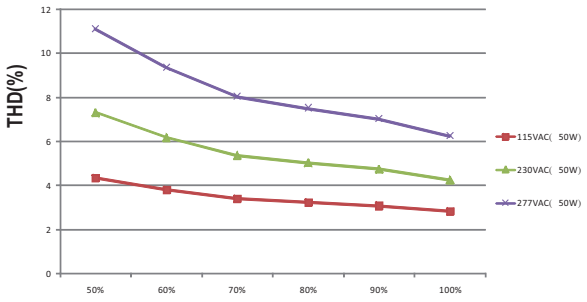
※ Tcase at 75℃



LOAD

■ TOTAL HARMONIC DISTORTION (THD)

※ 50V Model, Tcase at 75℃

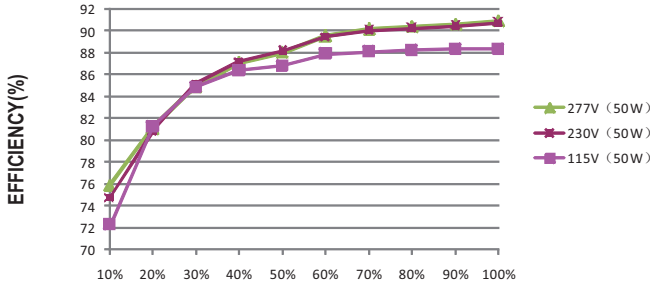


LOAD

■ EFFICIENCY vs LOAD

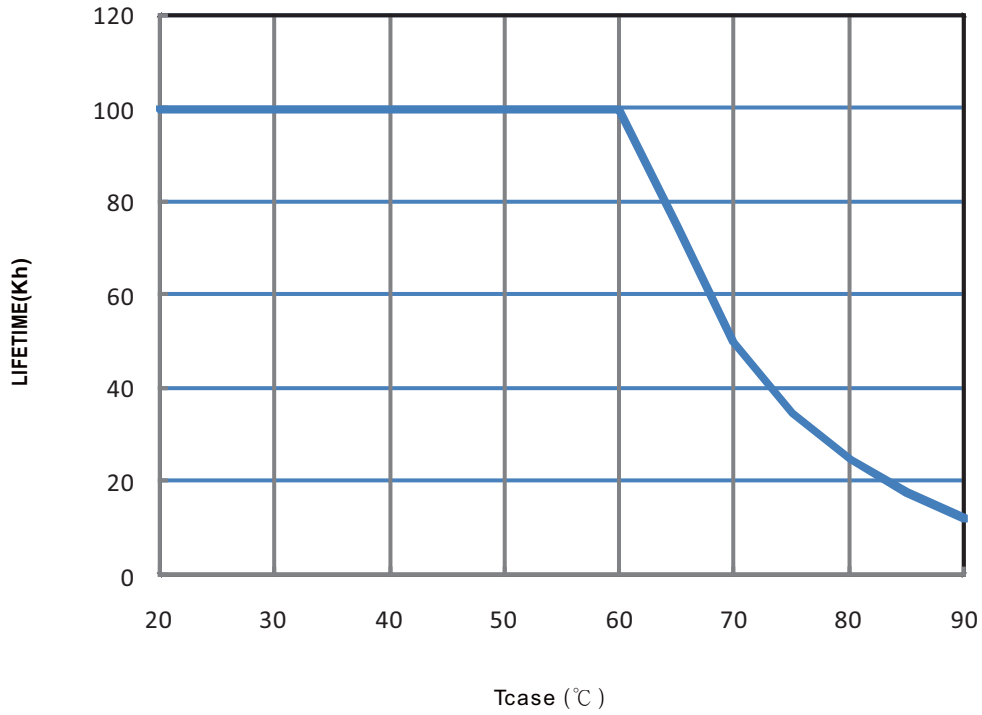
XLG-50 series possess superior working efficiency that up to 90% can be reached in field applications.

※ 50V Model, Tcase at 75℃



LOAD

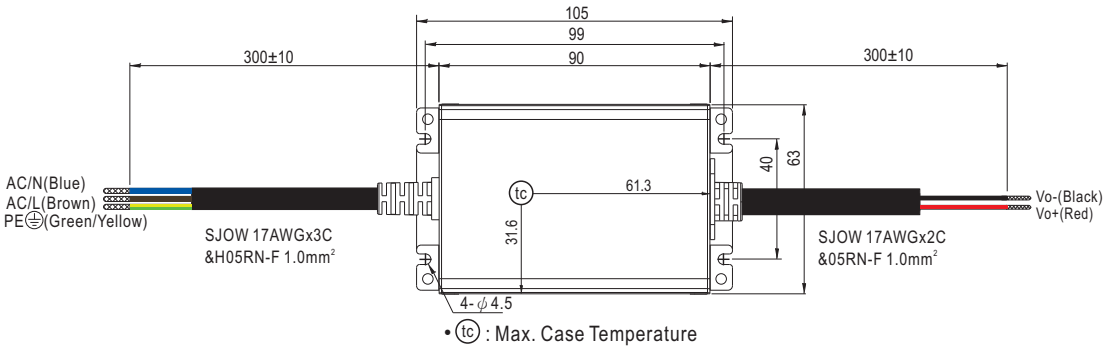
■ LIFE TIME



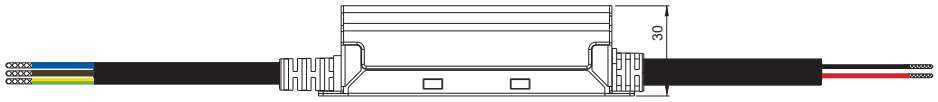
■ Mechanical Specification

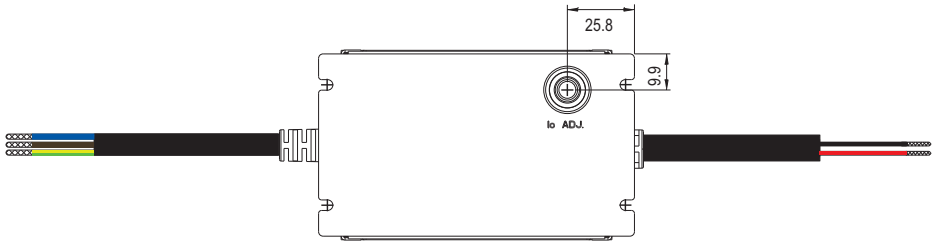
※ A-Type

CASE NO.: 268A Unit:mm

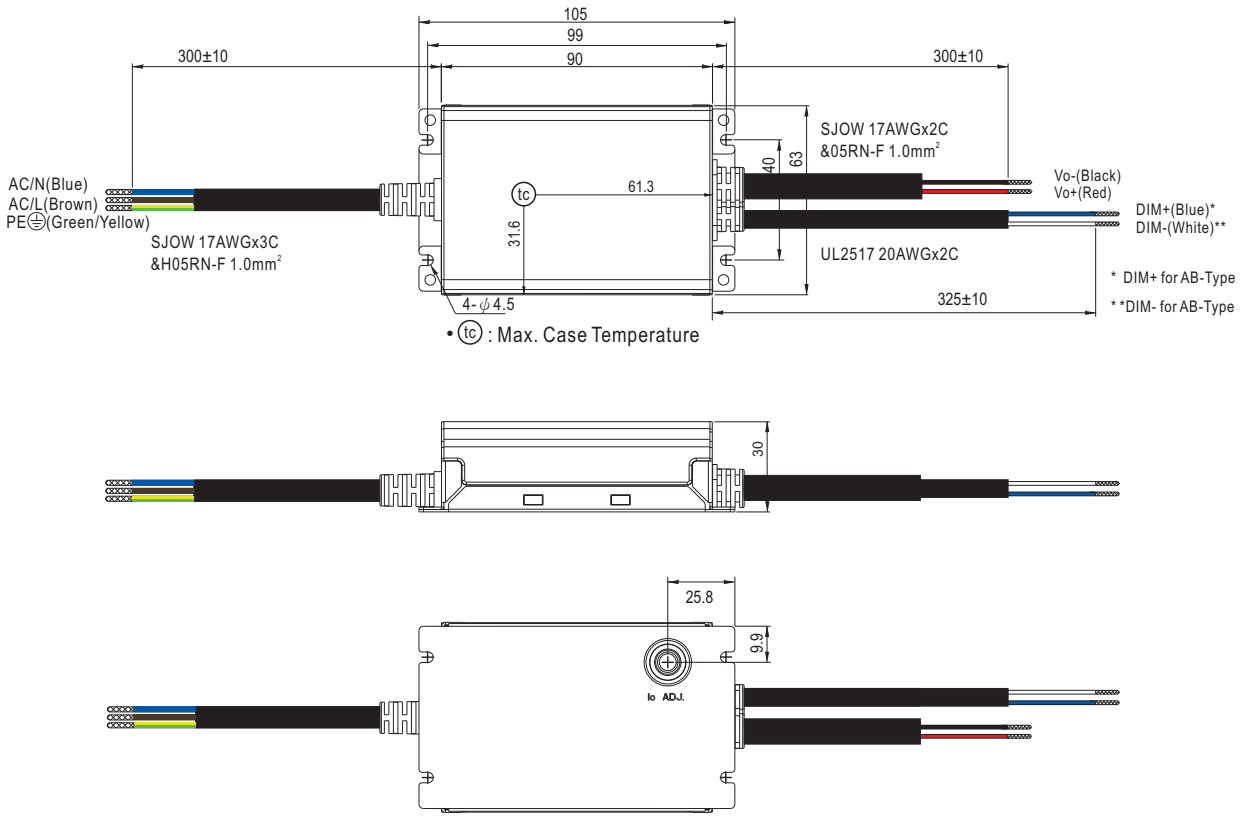


• tc : Max. Case Temperature





※ **AB-Type**



■ Installation Manual

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

SELV IP67 Type HL Note.12

Features

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

Applications

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

Description

XLG-75 series is a 75W LED AC/DC driver featuring the constant power mode and high voltage output. XLG-75 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 5000mA. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40℃~+90℃ 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-75 is designed with the latest version of IEC61347/GB7000.1-2015 and UL8750 international safety regulations. The output and dimming lines are also completely in accordance with the new regulations with isolation to ensure the users and luminaire system safety during installation.

Model Encoding

XLG - 75 [I] - [L] - [ ]

- [ ] Function options
- [L] Rated output voltage(12/24V or L/H types)
- [I] I: for India version / [ ]: For standard version
- 75 Rated wattage
- XLG Series name

Type	Function	Note
Blank	Io and Vo fixed.(For harsh envirenment)	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: 12V and 24V models only have the Blank and A type

SPECIFICATION

MODEL		XLG-75-12-□	XLG-75-24-□
OUTPUT	DC VOLTAGE	12V	24V
	CONSTANT CURRENT REGION Note.2	8.4~ 12V	16.8~ 24V
	RATED CURRENT	5A	3.1A
	RATED POWER	60W	74.4W
	RIPPLE & NOISE (max.) Note.3	150mVp-p	240mVp-p
	VOLTAGE TOLERANCE Note.4	±3.0%	±2.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±2%	±1%
	SETUP, RISE TIME Note.6	500ms, 100ms/230VAC, 1200ms, 100ms/115VAC	
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 115VAC	
INPUT	VOLTAGE RANGE Note.5	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%/115VC,230VAC; @load≧75%/277VAC)	
	EFFICIENCY (Typ.)	89%	90%
	AC CURRENT	1.0A / 115VAC 0.45A / 230VAC 0.38A/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	9 units (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	
PROTECTION	OVER CURRENT	95 ~ 108%	
		Constant current limiting, recovers automatically after fault condition is removed	
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed	
	OVER VOLTAGE	13 ~ 19V	26 ~ 36V
		Shut down output voltage, re-power on to recover	
	INPUT OVER VOLTAGE Note.7	320 ~ 370VAC (Shut down output voltage when the input voltage exceeds protection voltage)	
		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 ~ +90℃, 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	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1 , GB19510.14; IP67 approved	
	WITHSTAND VOLTAGE	I/P-O/P:4.2KVAC I/P-FG:2.1KVAC 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	Compliance to EN55015,EN61000-3-2 Class C (@load≧50%) ; EN61000-3-3;	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)(10K/6K option)	
OTHERS	MTBF	1232.28K hrs min. Telcordia SR-332 (Bellcore) ; 376.3Khrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	140*63*32mm (L*W*H)	
	PACKING	0.52Kg;24pcs /13.48Kg /0.85CUFT	

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.
2. Please refer to "DRIVING METHODS OF LED MODULE".
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
4. Tolerance : includes set up tolerance, line regulation and load regulation.
5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
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.
7. Only for XLG-75 I series
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-qualify EMC Directive on the complete installation again.
9. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70℃ or less.
10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
11. 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).
12. Products sourced from the Americas regions may not have the CCC logo. Please contact your MEAN WELL sales for more information.
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

MEAN WELL

75W Constant Power Mode LED Driver XLG-75 series

SPECIFICATION

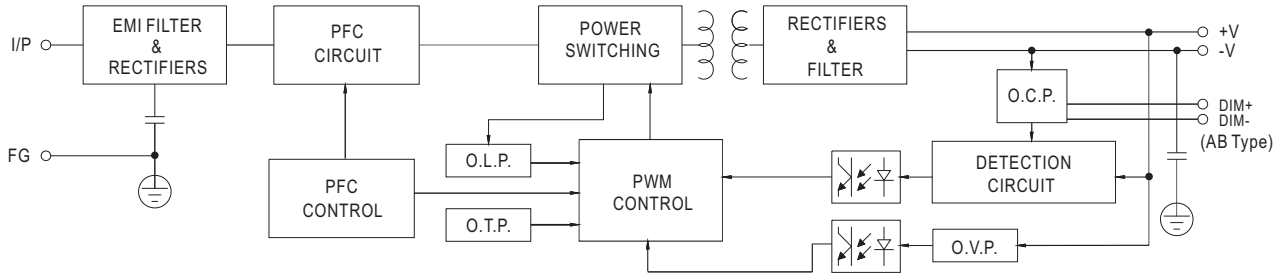
MODEL		XLG-75-L-□	XLG-75-H-□
OUTPUT	RATED CURRENT	700mA	1400mA
	RATED POWER	75W	75W
	CONSTANT CURRENT REGION	53 ~ 107V	27 ~ 56V
	FULL POWER CURRENT RANGE	700~1050mA	1300~2100mA
	OPEN CIRCUIT VOLTAGE (max.)	115V	60V
	CURRENT ADJ. RANGE	350~1050mA	650~2100mA
	CURRENT RIPPLE	3.0%(@ Load≧50% rated voltage)	
	CURRENT TOLERANCE	±5%	
	SET UP TIME	500ms/230VAC, 1200ms/115VAC	
INPUT	VOLTAGE RANGE Note.5	100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" ang " 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.)	91%	90%
	AC CURRENT (Typ.)	1A / 115VAC 0.45A / 230VAC 0.38A / 277VAC	
	INRUSH CURRENT(Typ.)	COLD START 50A(t_{width}=300μs measured at 50% I_{peak}) at 230VAC; Per NEMA 410	
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	9 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)	
PROTECTION	OVER POWER	110 ~ 150%	
		Hiccup mode, recovers automatically after fault condition is removed	
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed	
	INPUT OVER VOLTAGE Note.7	320 ~ 370VAC (Shut down output voltage when the input voltage exceeds protection voltage)	
		can survive input voltage stress of 440Vac for 48 hours	
	OVER TEMPERATURE	Shut down output voltage, re-power on to recovery	
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 non-condensing	
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60℃)	
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1 , GB19510.14; 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	Compliance to EN55015, EN61000-3-2 Class C (@ load≧50%); EN61000-3-3	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)(10K/6K option)	
OTHERS	MTBF	1232.28K hrs min. Telcordia SR-332 (Bellcore) ; 376.3Khrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	140*63*32mm (L*W*H)	
	PACKING	0.52Kg;24pcs /13.48Kg /0.85CUFT	

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.
2. Please refer to "DRIVING METHODS OF LED MODULE".
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
4. Tolerance : includes set up tolerance, line regulation and load regulation.
5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
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.
7. Only for XLG-75 I series
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-qualify EMC Directive on the complete installation again.
9. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70℃ or less.
10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
11. 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).
12. Products sourced from the Americas regions may not have the CCC logo. Please contact your MEAN WELL sales for more information.
13. To fullfill requirements of the latest ErP regulation for lighting fixtures, this LED drivers can only be used behind a switch without permanently connected to the mains
14. 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

■ BLOCK DIAGRAM

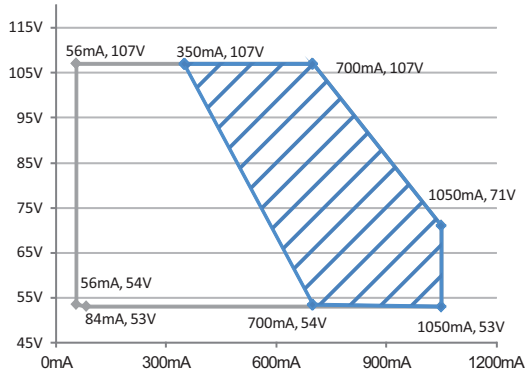
PFC fosc : 50~120KHz
PWM fosc : 65KHz



■ DRIVING METHODS OF LED MODULE

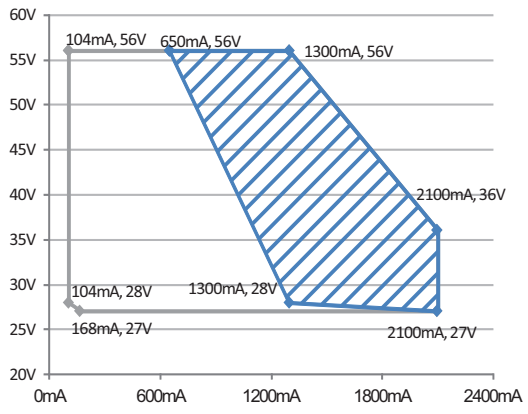
※ I-V Operating Area

◎ **XLG-75-L**



Recommend Performance Region Allow Operation Region

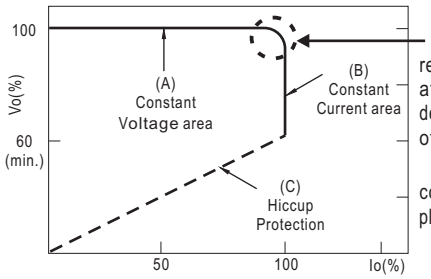
◎ **XLG-75-H**



Recommend Performance Region Allow Operation Region

◎ **XLG-75-12,24**

※ 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.

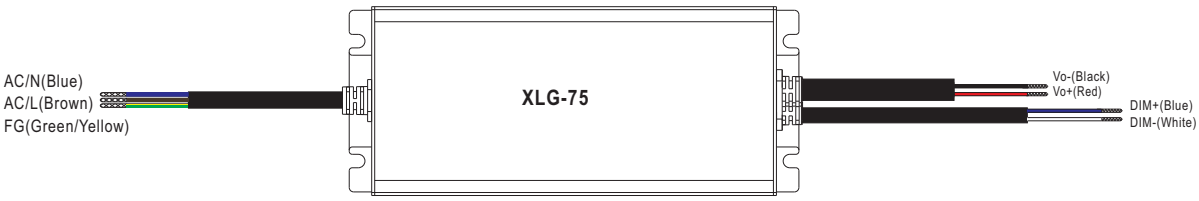


In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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

Typical output current normalized by rated current (%)

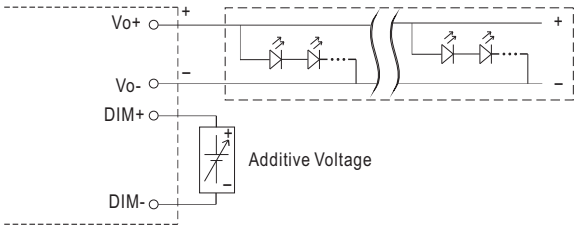
■ DIMMING OPERATION



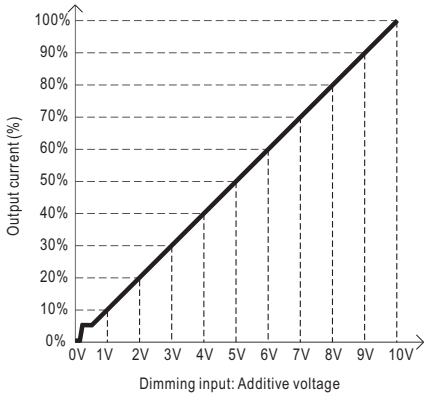
※ 3 in 1 dimming function (for AB-Type)

- 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 μA (typ.)

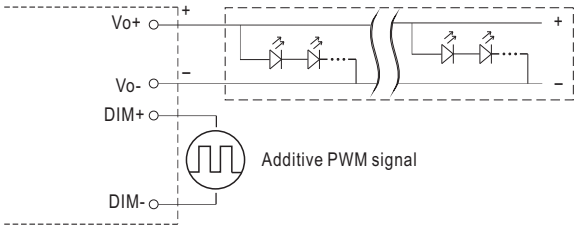
◎ Applying additive 0 ~ 10VDC



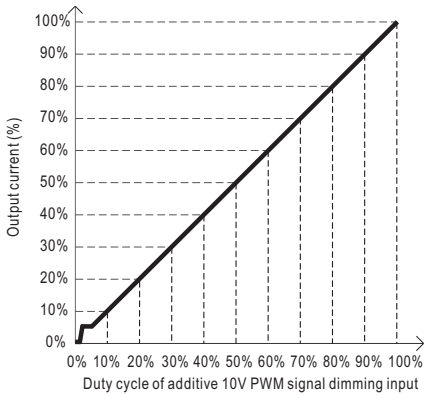
"DO NOT connect "DIM- to Vo-"



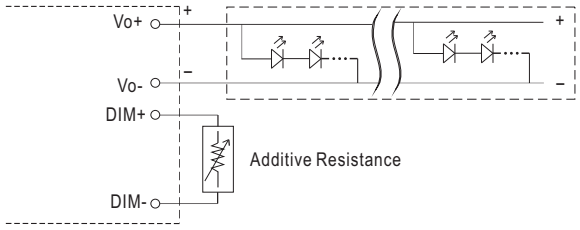
◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



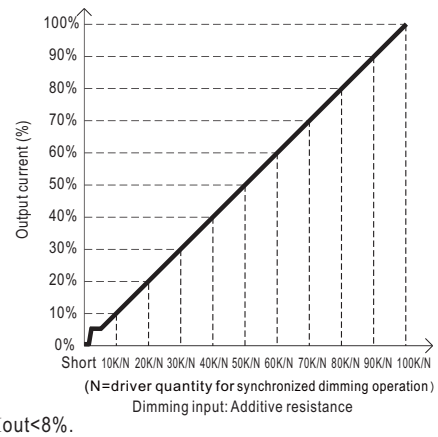
"DO NOT connect "DIM- to Vo-"



◎ Applying additive resistance:

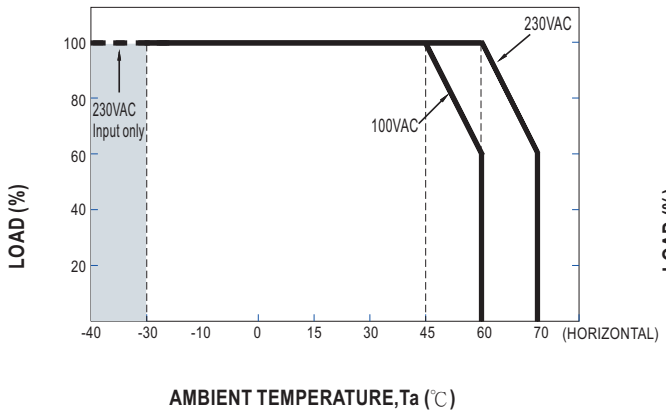


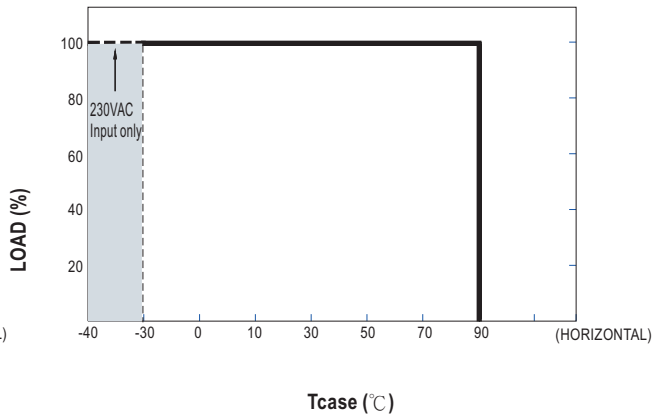
"DO NOT connect "DIM- to Vo-"



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

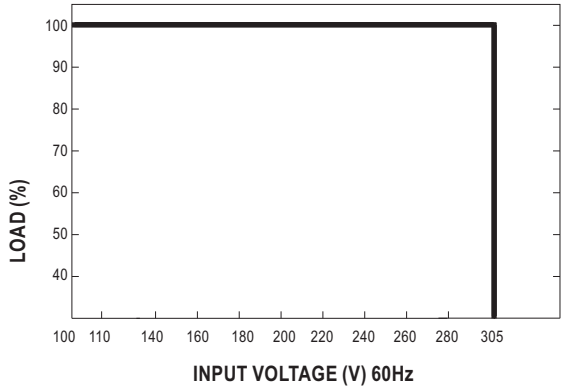
■ OUTPUT LOAD vs TEMPERATURE





If XLG-75 operates in Constant Power mode with the rated current the maximum workable Ta is 60℃ (Typ. 230VAC)

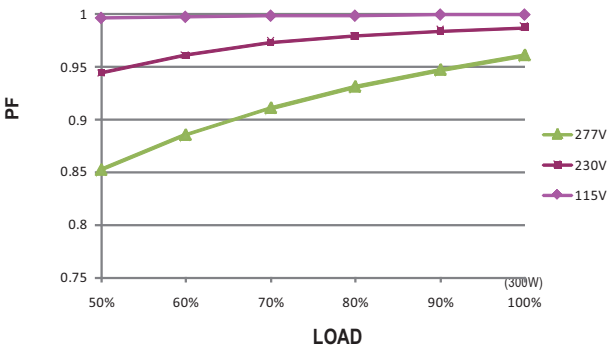
■ STATIC CHARACTERISTIC



■ POWER FACTOR (PF) CHARACTERISTIC

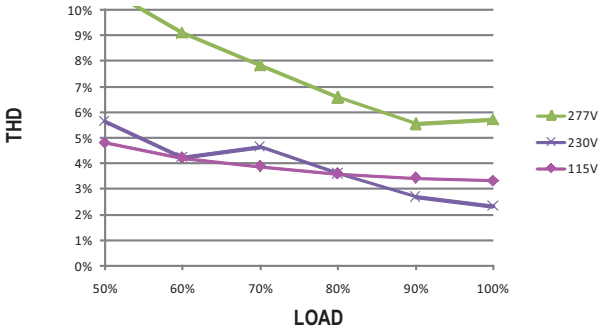
※ Tcase at 75℃

Constant Current Mode



■ TOTAL HARMONIC DISTORTION (THD)

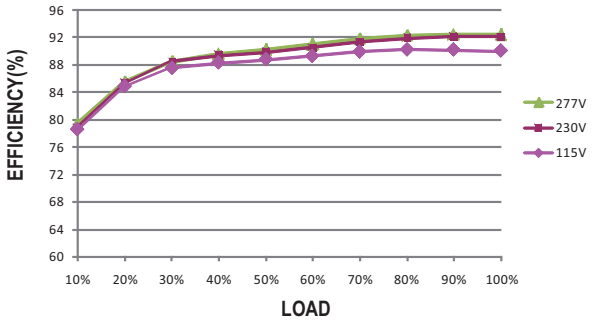
※ XLG-75-L Model, Tcase at 75℃



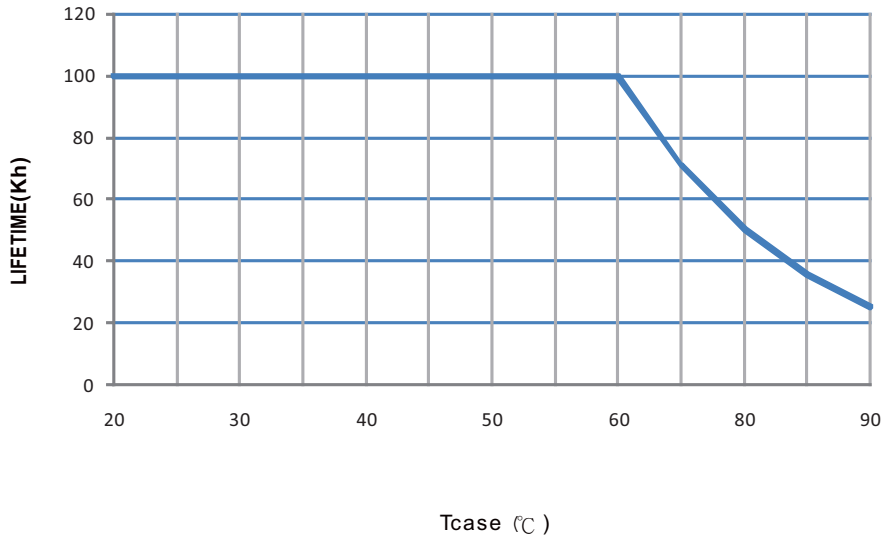
■ EFFICIENCY vs LOAD

XLG-75 series possess superior working efficiency that up to 92% can be reached in field applications.

※ XLG-75-L Model, Tcase at 75℃



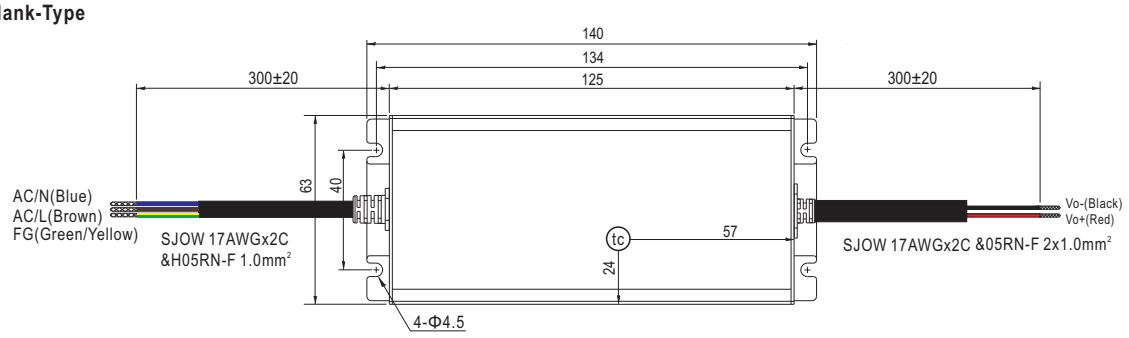
■ LIFE TIME



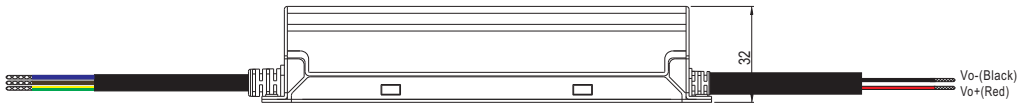
■ MECHANICAL SPECIFICATION

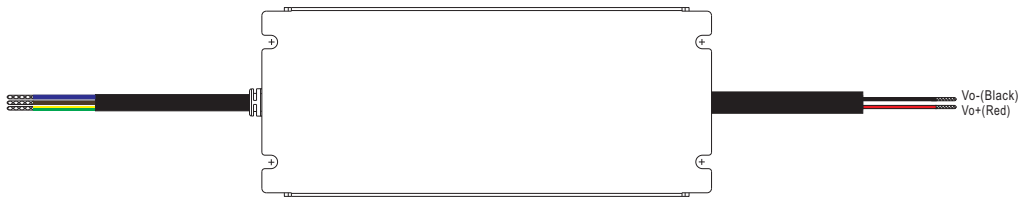
Case No.: Unit:mm

※ **Blank-Type**



• tc : Max. Case Temperature

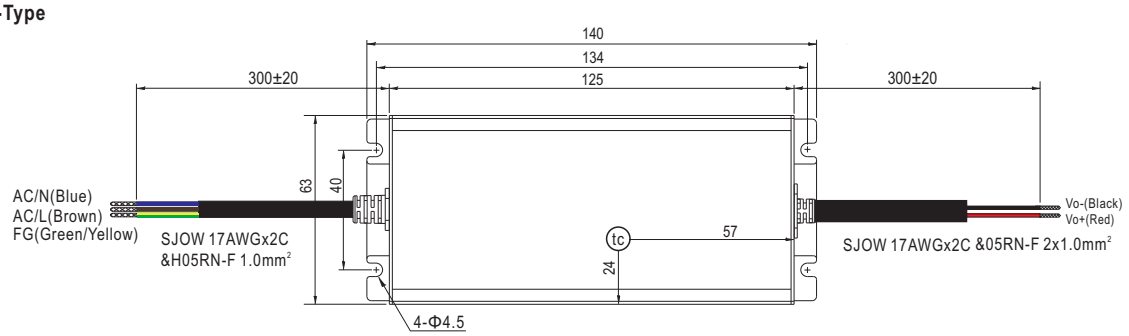




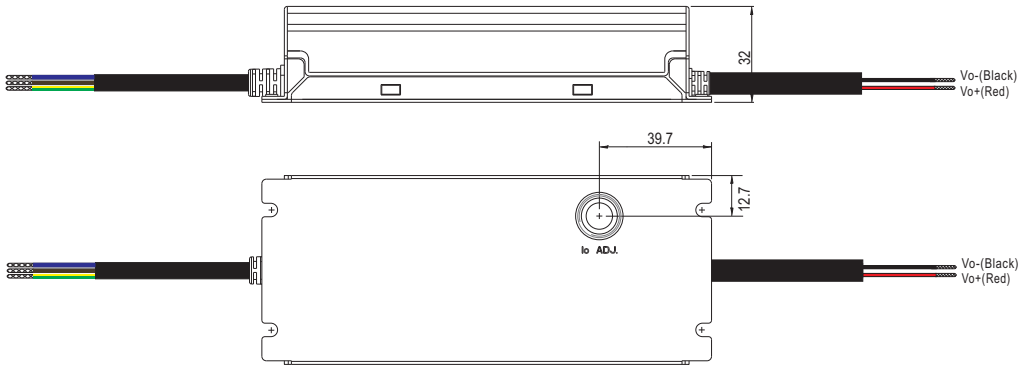
■ MECHANICAL SPECIFICATION

Case No.: Unit:mm

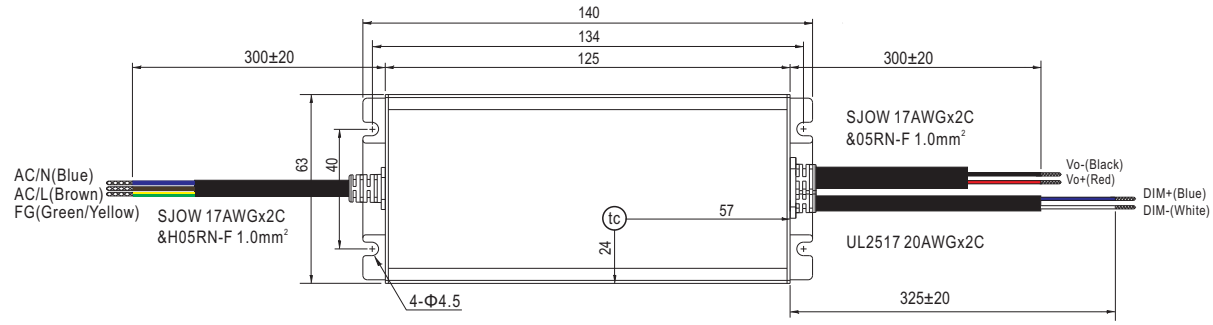
※ A-Type



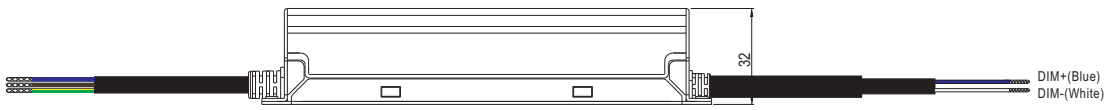
• tc : Max. Case Temperature



※ AB-Type



• tc : Max. Case Temperature



■ INSTALLATION MANUAL

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

MEAN WELL

100W Constant Power Mode LED Driver

XLG-100 series

SELV IP67 Type HL Note.12

Features

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

Applications

- Skyscraper lighting
- Street lighting
- Floodlight Lighting
- Stage lighting
- Fishing lighting
- Horticulture lighting
- 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 and high voltage output. XLG-100 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 2780mA. Thanks to the high efficiency up to 92%, with the fanless design, the entire series is able to operate for -40℃~+90℃ 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 is designed with the latest version of IEC61347/GB7000.1-2015 and UL8750 international safety regulations. The output and dimming lines are also completely in accordance with the new regulations with isolation to ensure the users'and luminaire system safety during installation.

Model Encoding

XLG - 100 [I] - [L] - [ ]

- [ ] Function options
- [L] Rated output voltage(12/24V or L/H types)
- [I] I: for India version; [ ]: For standard version
- 100 Rated wattage
- XLG Series name

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: 12V and 24V models only have the Blank and A type

SPECIFICATION

MODEL		XLG-100-12-□	XLG-100-24-□
OUTPUT	DC VOLTAGE	12V	24V
	CONSTANT CURRENT REGION Note.2	8.4~ 12V	16.8~ 24V
	RATED CURRENT	8A	4A
	RATED POWER	96W	96W
	RIPPLE & NOISE (max.) Note.3	150mVp-p	240mVp-p
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via the built-in potentiometer)	
		4 ~ 8A	2 ~ 4A
	VOLTAGE TOLERANCE Note.4	±3.0%	±2.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±2%	±1%
	SETUP, RISE TIME Note.6	500ms, 100ms/230VAC, 1200ms, 100ms/115VAC	
	HOLD UP TIME (Typ.)	12ms/ 230VAC 12ms/ 115VAC	
INPUT	VOLTAGE RANGE Note.5	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%/115VC,230VAC; @load≧75%/277VAC)	
	EFFICIENCY (Typ.)	92%	92%
	AC CURRENT	0.9A / 115VAC 0.45A / 230VAC 0.39A/277VAC	
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300μs measured at 50% Ipeak) at 230VAC; Per NEMA	
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	8 units (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	
PROTECTION	OVER CURRENT	95 ~ 108%	
		Constant current limiting, recovers automatically after fault condition is removed	
	SHORT CIRCUIT	Hiccup mode, 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 Note.7	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage)	
		can survive input voltage stress of 440Vac for 48 hours	
	OVER TEMPERATURE	Shut down O/P voltage. recovers automatically after temperature goes down	
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 ~ +90℃, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60℃)	
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1 , GB19510.14; IP67 approved	
	WITHSTAND VOLTAGE	I/P-O/P:4.2KVAC I/P-FG:2.1KVAC 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	Compliance to EN55015,EN61000-3-2 Class C (@load≧50%) ; EN61000-3-3;	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)(10K/6K option)	
OTHERS	MTBF	1006.16K hrs min. Telcordia SR-332 (Bellcore) ;276.37Khrs min. MIL-HDBK-217F (25℃)	
	LIFETIME	50000 hrs min.	
	DIMENSION	140*63*32mm (L*W*H)	
	PACKING	0.588Kg;24pcs /15.11Kg /0.68CUFT	

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.
2. Please refer to "DRIVING METHODS OF LED MODULE".
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
4. Tolerance : includes set up tolerance, line regulation and load regulation.
5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
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.
7. Only for XLG-100 I series
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-qualify EMC Directive on the complete installation again.
9. 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).
10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
11. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70℃ or less.
12. Products sourced from the Americas regions may not have the CCC logo. Please contact your MEAN WELL sales for more information.
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

MEAN WELL

100W Constant Power Mode LED Driver

XLG-100 series

SPECIFICATION

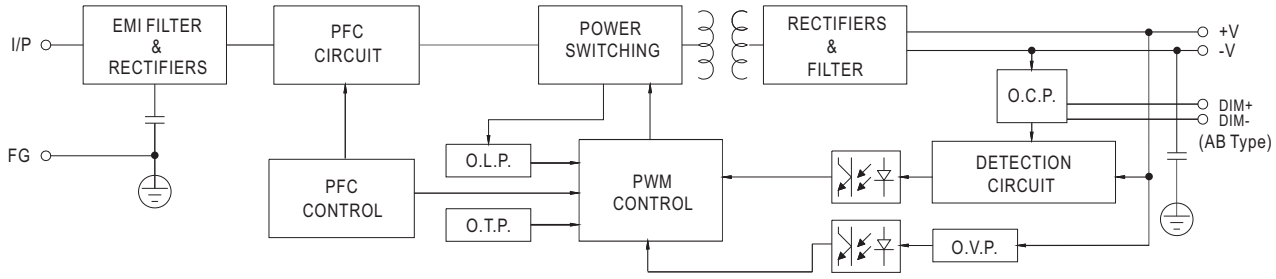
MODEL		XLG-100-L-□	XLG-100-H-□
OUTPUT	RATED CURRENT	700mA	2100mA
	RATED POWER	100W	100W
	CONSTANT CURRENT REGION	71 ~ 142V	27 ~ 56V
	FULL POWER CURRENT RANGE	700~1050mA	1750~2780mA
	OPEN CIRCUIT VOLTAGE (max.)	146V	60V
	CURRENT ADJ. RANGE	350~1050mA	875~2780mA
	CURRENT RIPPLE	3.0%(@ Load≧50% rated voltage)	
	CURRENT TOLERANCE	±5%	
	SET UP TIME	500ms/230VAC, 1200ms/115VAC	
INPUT	VOLTAGE RANGE Note.5	100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" ang " 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%	92%
	AC CURRENT (Typ.)	0.9A / 115VAC 0.45A / 230VAC 0.39A / 277VAC	
	INRUSH CURRENT(Typ.)	COLD START 50A(t_{width}=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	
PROTECTION	OVER POWER	105 ~ 150%	
		Hiccup mode, recovers automatically after fault condition is removed	
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed	
	OVER VOLTAGE	160 ~ 220V	66 ~ 90V
		Shut down output voltage, re-power on to recovery	
	INPUT OVER VOLTAGE Note.7	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage)	
		can survive input voltage stress of 440Vac for 48 hours	
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down	
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 non-condensing	
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60℃)	
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1 , GB19510.14; 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	Compliance to EN55015, EN61000-3-2 Class C (@ load≧50%); EN61000-3-3	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)(10k/6k option)	
OTHERS	MTBF	1006.16K hrs min. Telcordia SR-332 (Bellcore) ;276.37Khrs min. MIL-HDBK-217F (25℃)	
	LIFETIME Note.4	50000 hrs min.	
	DIMENSION	140*63*32mm (L*W*H)	
	PACKING	0.588Kg;24pcs /15.11Kg /0.68CUFT	

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.
2. Please refer to "DRIVING METHODS OF LED MODULE".
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
4. Tolerance : includes set up tolerance, line regulation and load regulation.
5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
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.
7. Only for XLG-100 I series
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-qualify EMC Directive on the complete installation again.
9. 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).
10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
11. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70℃ or less.
12. Products sourced from the Americas regions may not have the CCC logo. Please contact your MEAN WELL sales for more information.
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

■ BLOCK DIAGRAM

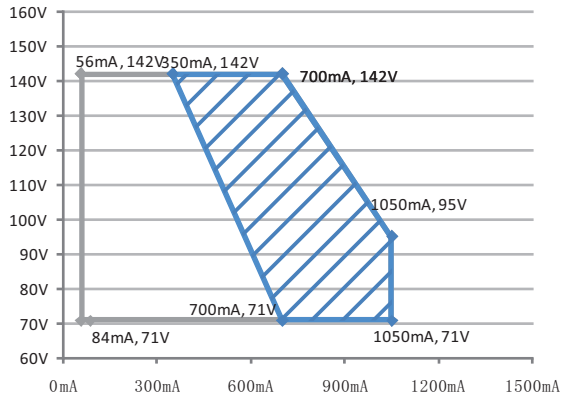
PFC fosc : 50~120KHz
PWM fosc : 60~130KHz



■ DRIVING METHODS OF LED MODULE

※ I-V Operating Area

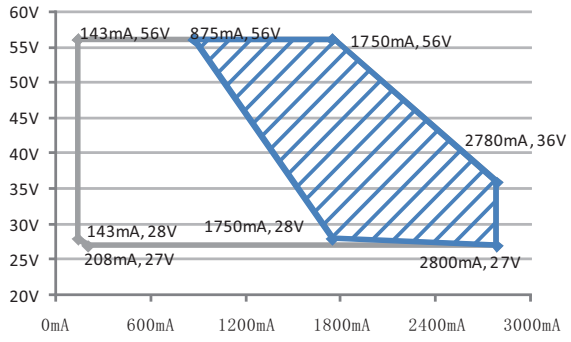
◎ **XLG-100-L**



Recommend Performance Region Allow Operation Region

Recommend Performance Region Allow Operation Region

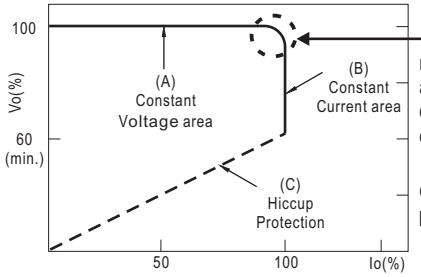
◎ **XLG-100-H**



Recommend Performance Region Allow Operation 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.

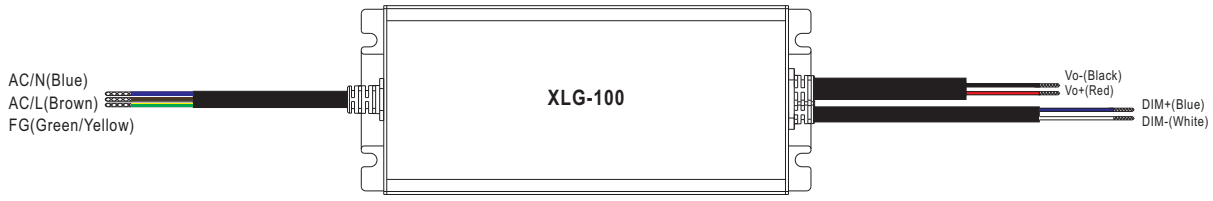


In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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

Typical output current normalized by rated current (%)

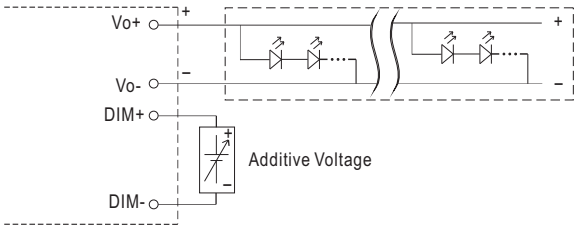
■ DIMMING OPERATION



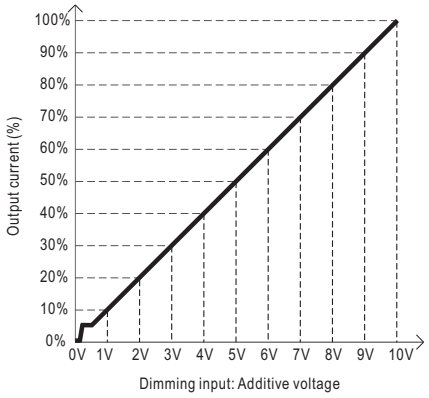
※ 3 in 1 dimming function (for AB-Type)

- 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 μA (typ.)

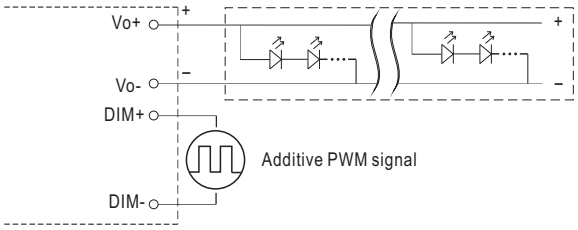
◎ Applying additive 0 ~ 10VDC



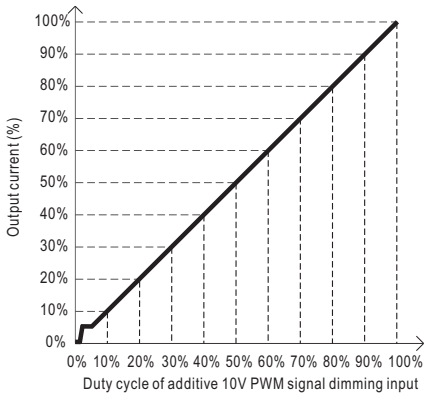
"DO NOT connect "DIM- to Vo-"



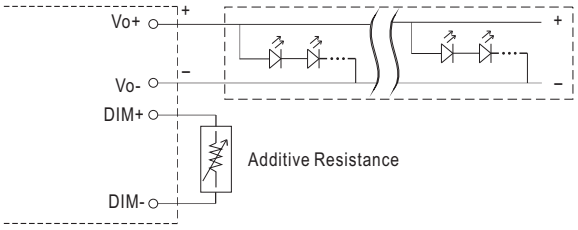
◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



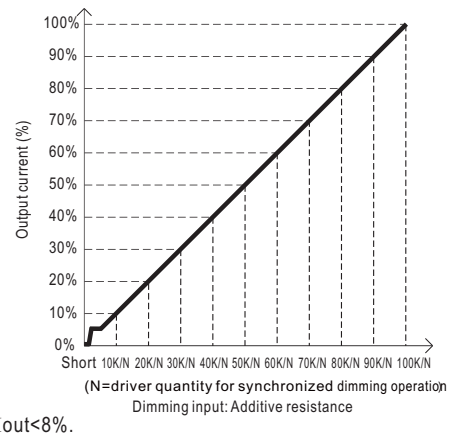
"DO NOT connect "DIM- to Vo-"



◎ Applying additive resistance:

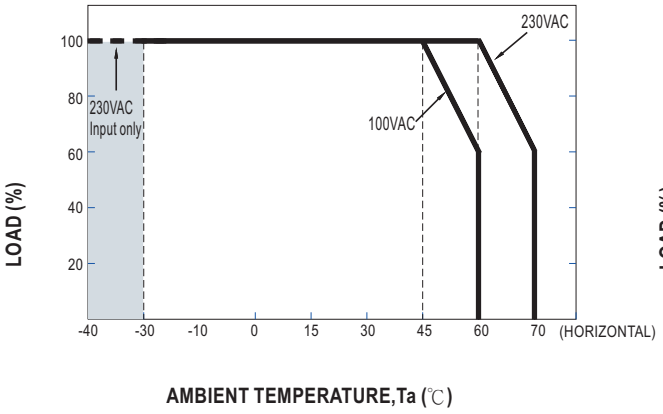


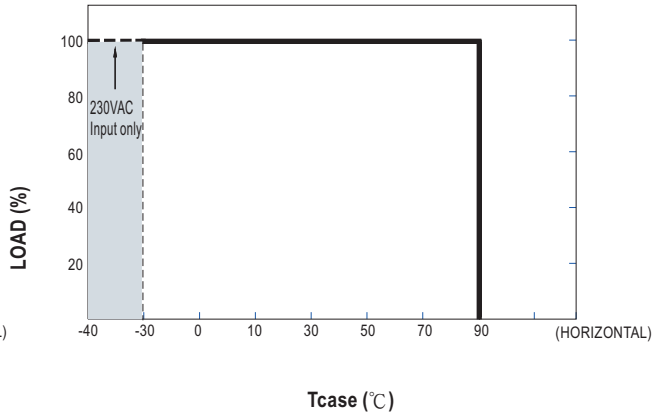
"DO NOT connect "DIM- to Vo-"



Note : 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<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.

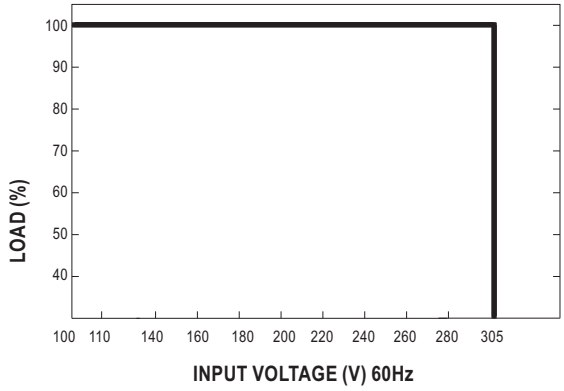
■ OUTPUT LOAD vs TEMPERATURE





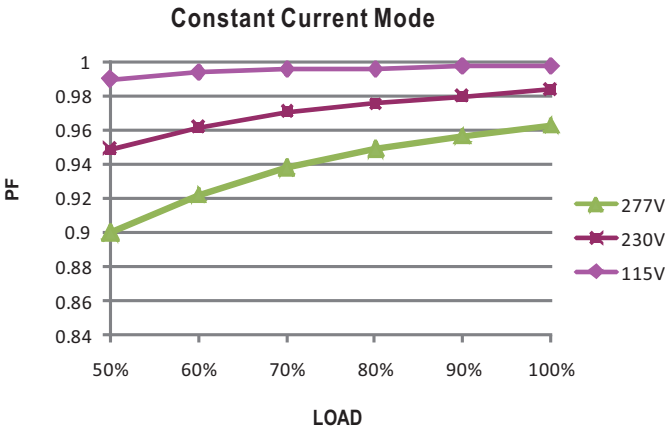
If XLG-100 operates in Constant Power mode with the rated current the maximum workable Ta is 60℃ (Typ. 230VAC)

■ STATIC CHARACTERISTIC



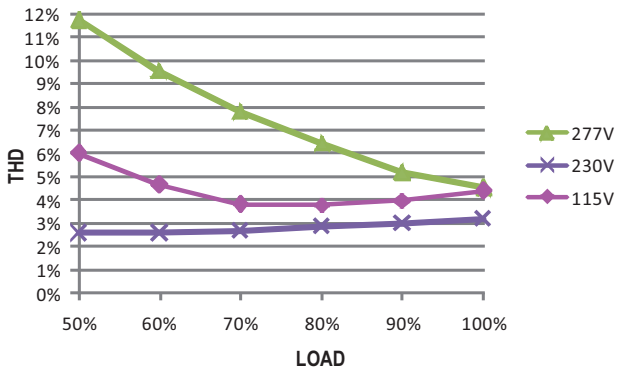
■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75℃



■ TOTAL HARMONIC DISTORTION (THD)

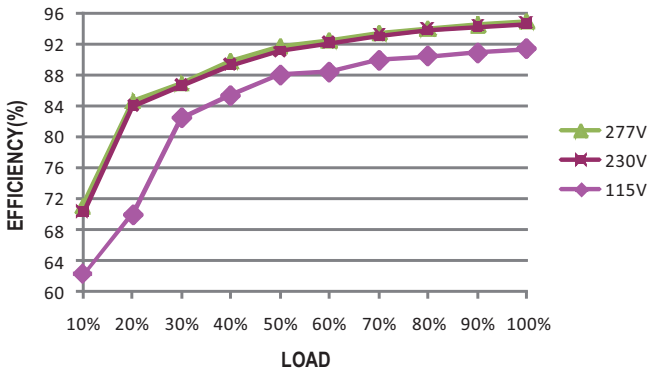
※ XLG-100-L Model, Tcase at 75℃



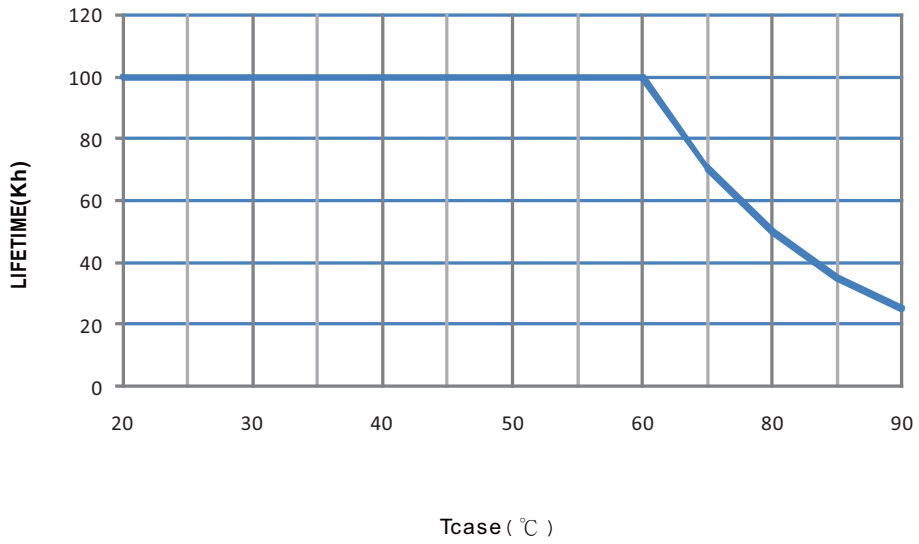
■ EFFICIENCY vs LOAD

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℃



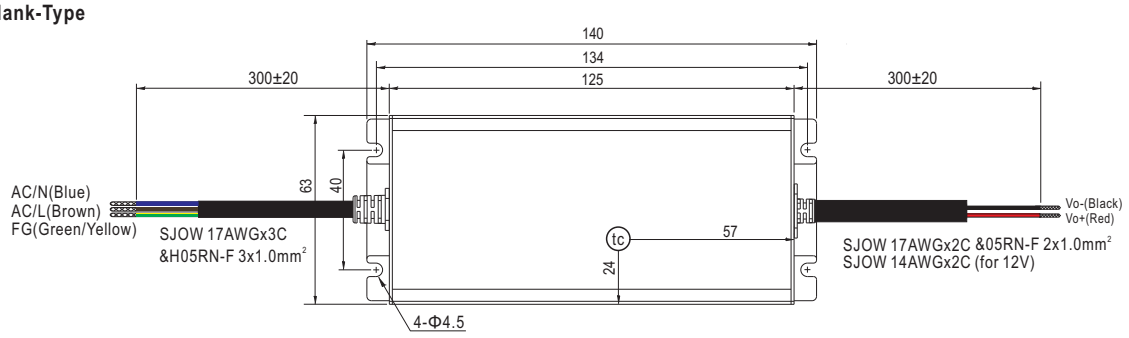
■ LIFE TIME



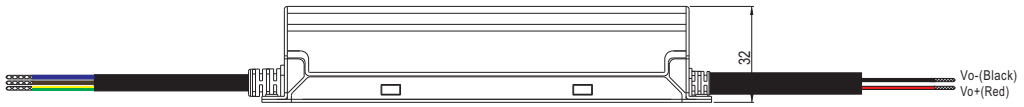
■ MECHANICAL SPECIFICATION

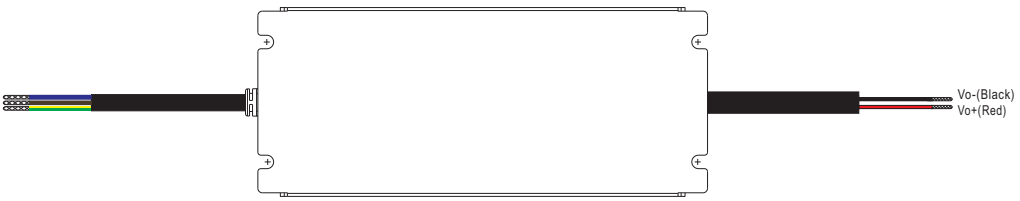
Case No.: Unit:mm

※ **Blank-Type**



• tc : Max. Case Temperature

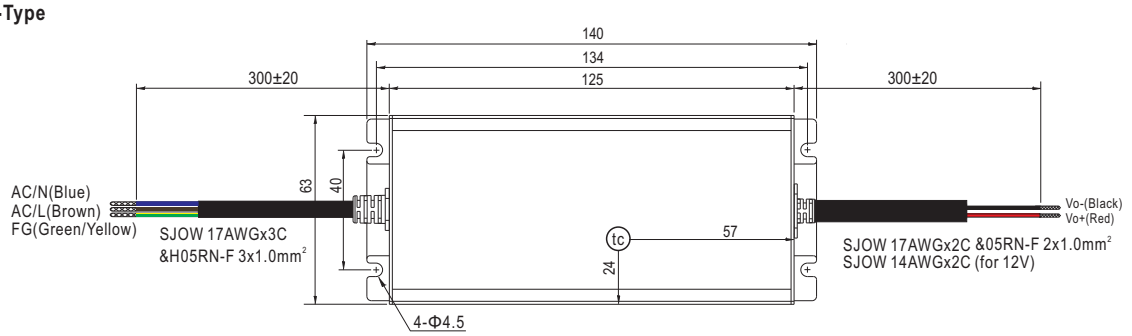




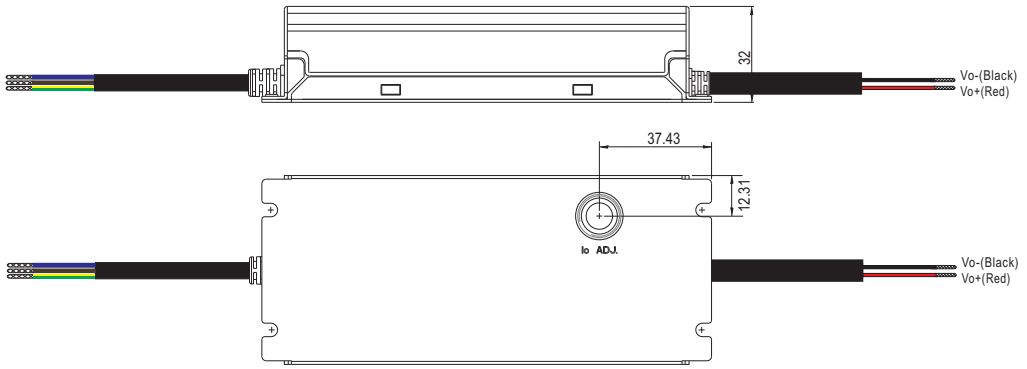
■ MECHANICAL SPECIFICATION

Case No.: Unit:mm

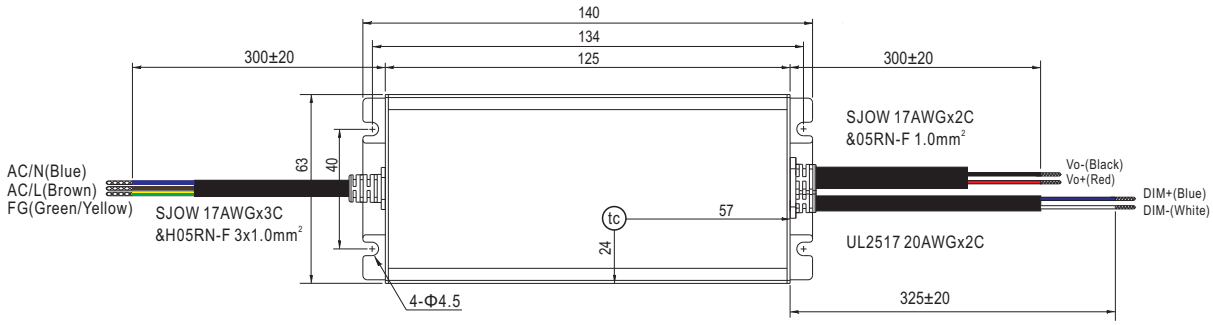
※ A-Type



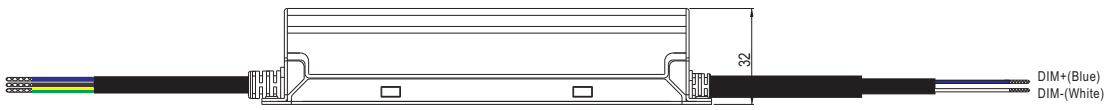
• tc : Max. Case Temperature



※ AB-Type



• tc : Max. Case Temperature



■ INSTALLATION MANUAL

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

MEAN WELL

150W Constant Power Mode LED Driver

XLG-150 series

SELV (Except for L type) IP67 Type HL Note.12

Features

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

Applications

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

Description

XLG-150 series is a 150W LED AC/DC driver featuring the constant power mode. XLG-150 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 12500mA. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for -40℃~+90℃ 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-150 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.XLG-150 is designed with the latest version of IEC61347/GB7000.1-2015 and UL8750 international safety regulations. The output and dimming lines are also completely in accordance with the new regulations with isolation to ensure the users and luminaire system safety durng installation.

Model Encoding

XLG - 150 [I] - [L] - [ ]

- [ ] Function options
- [L] Rated output voltage(12/24V or L/M/H types)
- [I] I: for India version / [ ]: For standard version
- 150 Rated wattage
- XLG Series name

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: 12V and 24V models only with Blank and A type

SPECIFICATION

MODEL		XLG-150-12	XLG-150-24
OUTPUT	DC VOLTAGE	12V	24V
	CONSTANT CURRENT REGION Note.2	8.4~ 12V	16.8~ 24V
	RATED CURRENT	12.5A	6.25A
	RATED POWER	150W	150W
	RIPPLE & NOISE (max.) Note.3	150mVp-p	240mVp-p
	CURRENT ADJ. RANGE	Adjustable for A-Type only (via the built-in potentiometer)	
		6.5~ 12.5A	3.2~ 6.25A
	VOLTAGE TOLERANCE Note.4	±3.0%	±2.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±2%	±1%
	SETUP, RISE TIME Note.6	500ms, 100ms/230VAC, 1200ms, 100ms/115VAC	
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 115VAC	
INPUT	VOLTAGE RANGE Note.5	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%/115VC,230VAC; @load≧75%/277VAC)	
	EFFICIENCY (Typ.)	91.5%	93%
	AC CURRENT	1.8A / 115VAC 1.0A / 230VAC 0.8A/277VAC	
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=500μs measured at 50% Ipeak) at 230VAC; Per NEMA 410	
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC	
	LEAKAGE CURRENT	<0.75mA / 277VAC	
	NO LOAD POWER CONSUMPTION	No load power consumption <0.5W for A-Type	
PROTECTION	OVER CURRENT	95 ~ 108%	
		Constant current limiting, recovers automatically after fault condition is removed	
	SHORT CIRCUIT	Hiccup mode, 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 Note.7	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage)	
		can survive input voltage stress of 440Vac for 48 hours	
	OVER TEMPERATURE	Shut down output voltage, recovers automatically after fault condition is removed	
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 ~ +90℃, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.06%/℃ (0 ~ 60℃)	
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1 , GB19510.14; EAC TP TC 004; IP67 approved	
	WITHSTAND VOLTAGE	I/P-O/P:4.2KVAC I/P-FG:2.1KVAC 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	Compliance to EN55015,EN61000-3-2 Class C (@load≧50%) ; EN61000-3-3;	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)(10K/6KV option)	
OTHERS	MTBF	712.17K hrs min. Telcordia SR-332 (Bellcore) ; 213.3Khrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	180*63*35.5mm (L*W*H)	
	PACKING	0.8Kg;16pcs / 13.4Kg /0.67CUFT	

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.
2. Please refer to "DRIVING METHODS OF LED MODULE".
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
4. Tolerance : includes set up tolerance, line regulation and load regulation.
5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
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.
7. Only for XLG-150 I series
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-qualify EMC Directive on the complete installation again.
9. 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).
10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
11. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70℃ or less.
12. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information.
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

MEAN WELL

150W Constant Power Mode LED Driver XLG-150 series

SPECIFICATION

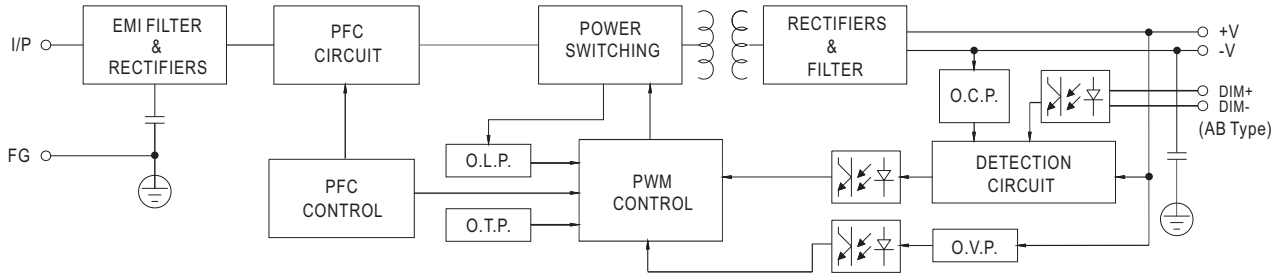
MODEL		XLG-150-L-□	XLG-150-M-□	XLG-150-H-□
OUTPUT	RATED CURRENT	700mA	1400mA	2800mA
	RATED POWER	150W	150W	150W
	CONSTANT CURRENT REGION	120 ~214V	60 ~ 107V	27 ~ 56V
	FULL POWER CURRENT RANGE	700~1050mA	1400~2100mA	2680~4170mA
	OPEN CIRCUIT VOLTAGE (max.)	225V	115V	60V
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via the built-in potentiometer)		
		350~1050mA	700~2100mA	1400~4170mA
	CURRENT RIPPLE	3.0%(@ Load≧50% rated voltage)		
	CURRENT TOLERANCE	±5%		
	SET UP TIME	500ms/230VAC, 1200ms/115VAC		
INPUT	VOLTAGE RANGE Note.5	100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" ang " 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.)	93%	92.5%	92%
	AC CURRENT (Typ.)	1.8A / 115VAC 1.0A / 230VAC 0.8A/277VAC		
	INRUSH CURRENT(Typ.)	COLD START50A(t_{width}=500μs measured at 50% I_{peak}) at 230VAC; Per NEMA 410		
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	4 unit(circuit breaker of type B) / 8 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)		
PROTECTION	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed		
	OVER VOLTAGE	230 ~ 265V	128~ 150V	61 ~ 78V
		Shut down output voltage, re-power on to recovery		
	INPUT OVER VOLTAGE Note.7	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage)		
		can survive input voltage stress of 440Vac for 48 hours		
	OVER TEMPERATURE	Shut down output voltage, recovers automatically after fault condition is removed		
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 non-condensing		
	TEMP. COEFFICIENT	±0.06%/℃ (0 ~ 60℃)		
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1 , GB19510.14; EAC TP TC 004; IP67 approved		
	WITHSTAND VOLTAGE	I/P-O/P:4.2KVAC I/P-FG:2.1KVAC 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	Compliance to EN55015, EN61000-3-2 Class C (@ load≧50%); EN61000-3-3		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)(10K/6KV option)		
OTHERS	MTBF	712.17K hrs min. Telcordia SR-332 (Bellcore) ; 213.3Khrs min. MIL-HDBK-217F (25℃)		
	LIFETIME Note.4	50000 hrs min.		
	DIMENSION	180*63*35.5mm (L*W*H)		
	PACKING	0.8Kg;16pcs/13.4Kg/0.67CUFT		

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.
2. Please refer to "DRIVING METHODS OF LED MODULE".
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
4. Tolerance : includes set up tolerance, line regulation and load regulation.
5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
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.
7. Only for XLG-150 I series
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-qualify EMC Directive on the complete installation again.
9. 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).
10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
11. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70℃ or less.
12. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information.
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

■ BLOCK DIAGRAM

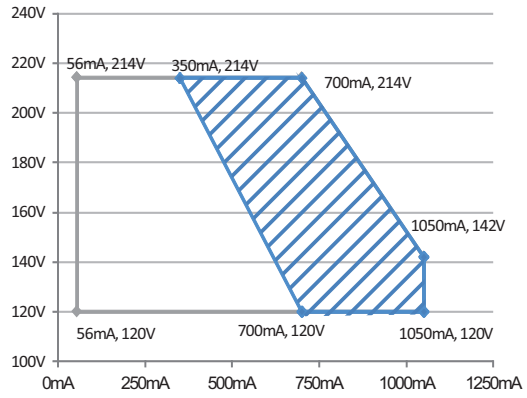
PFC fosc : 50~120KHz
PWM fosc : 60~130KHz



■ DRIVING METHODS OF LED MODULE

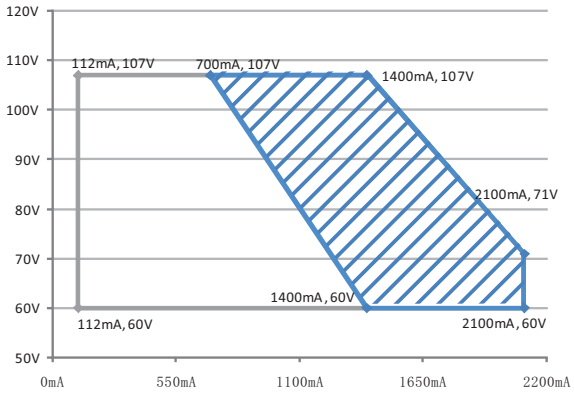
※ I-V Operating Area

◎ **XLG-150-L**



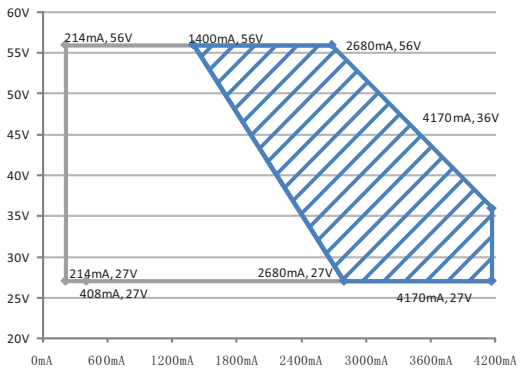
Recommend Performance Region Allow Operation Region

◎ **XLG-150-M**



Recommend Performance Region Allow Operation Region

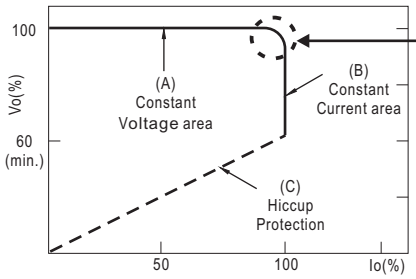
◎ **XLG-150-H**



Recommend Performance Region Allow Operation Region

◎ **XLG-150-12,24**

※ 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.

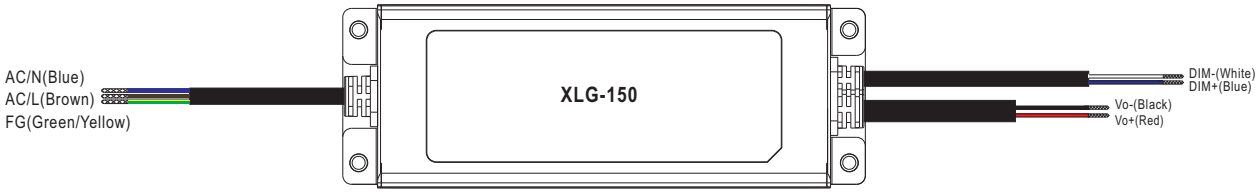


In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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

Typical output current normalized by rated current (%)

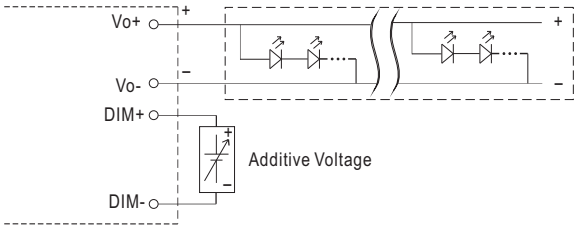
■ DIMMING OPERATION



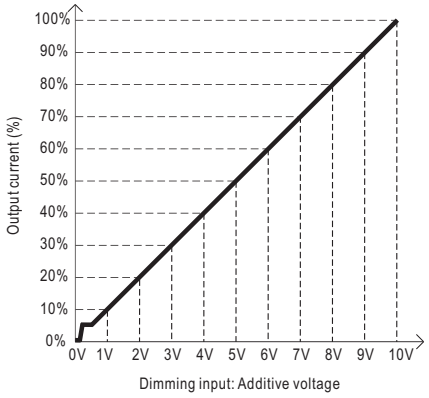
※ 3 in 1 dimming function (for AB-Type)

- 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 μA (typ.)

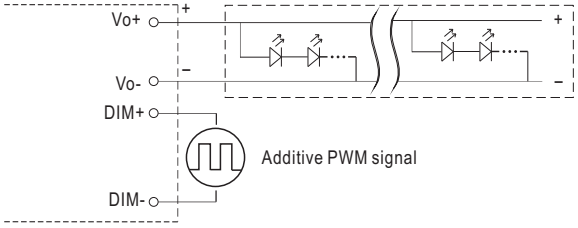
◎ Applying additive 0 ~ 10VDC



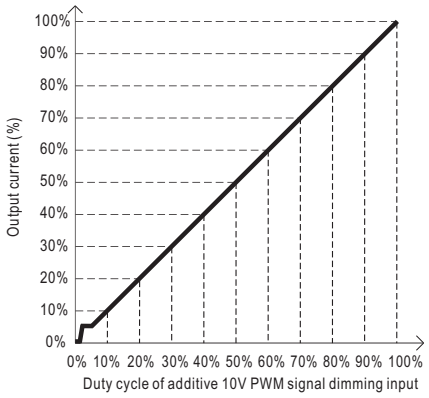
"DO NOT connect "DIM- to Vo-"



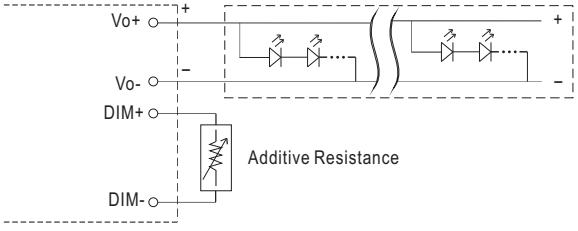
◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



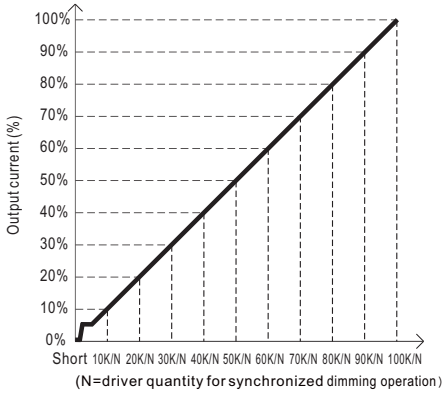
"DO NOT connect "DIM- to Vo-"



◎ Applying additive resistance:

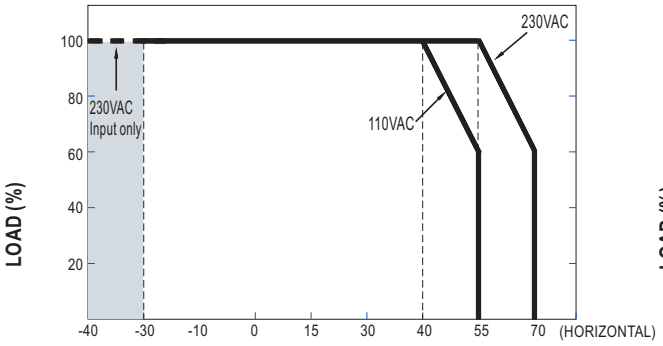


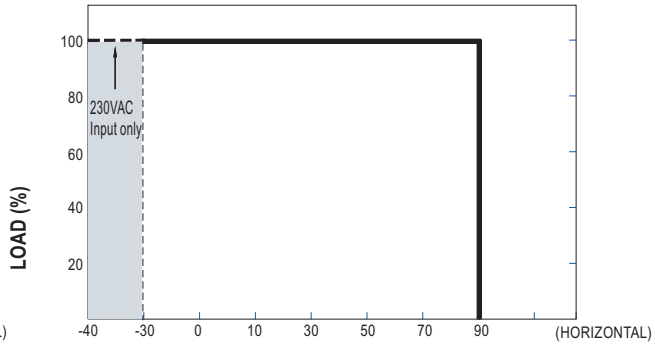
"DO NOT connect "DIM- to Vo-"



Note : 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<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.

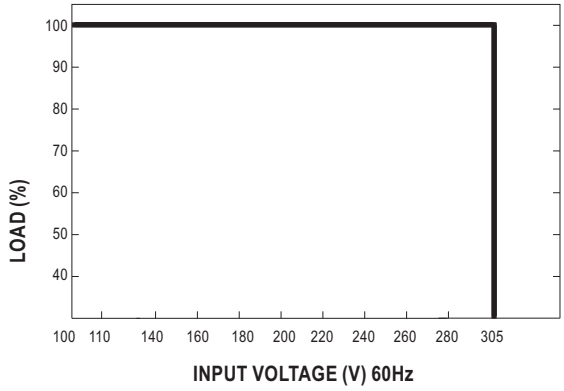
■ OUTPUT LOAD vs TEMPERATURE





If XLG-150 operates in Constant Current mode with the rated current the maximum workable Ta is 55℃ (Typ. 230VAC) or 40℃ (Typ.110VAC)

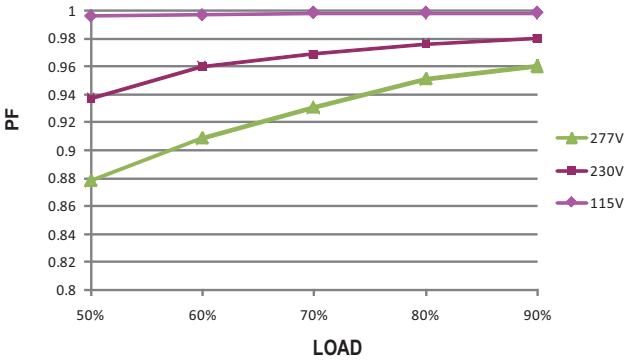
■ STATIC CHARACTERISTIC



■ POWER FACTOR (PF) CHARACTERISTIC

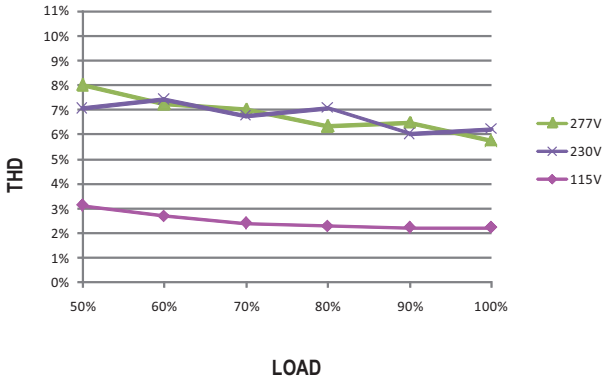
※ Tcase at 75℃

Constant Current Mode



■ TOTAL HARMONIC DISTORTION (THD)

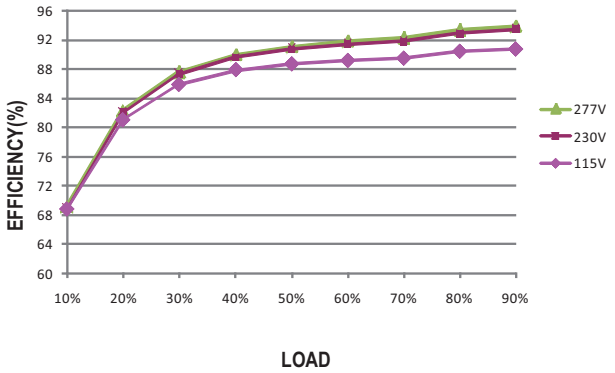
※ XLG-150-L Model, Tcase at 75℃



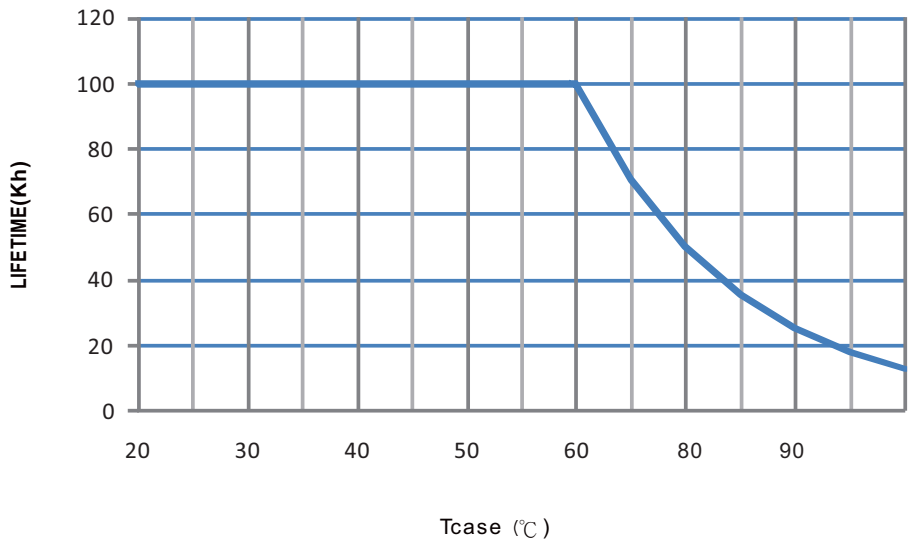
■ EFFICIENCY vs LOAD

XLG-150 series possess superior working efficiency that up to 93% can be reached in field applications.

※ XLG-150-L Model, Tcase at 75℃



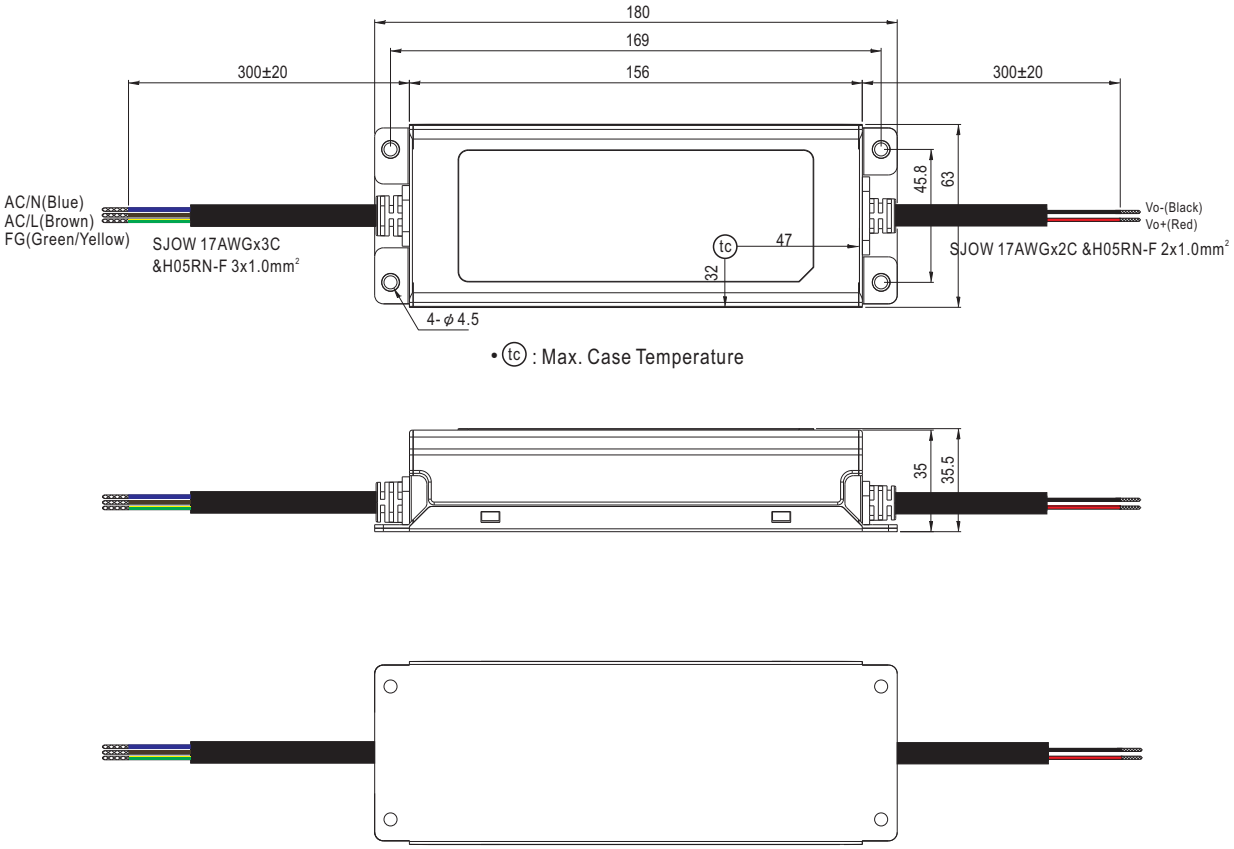
■ LIFE TIME



■ MECHANICAL SPECIFICATION

Case No.: 243A Unit:mm

※ **Blank-Type**

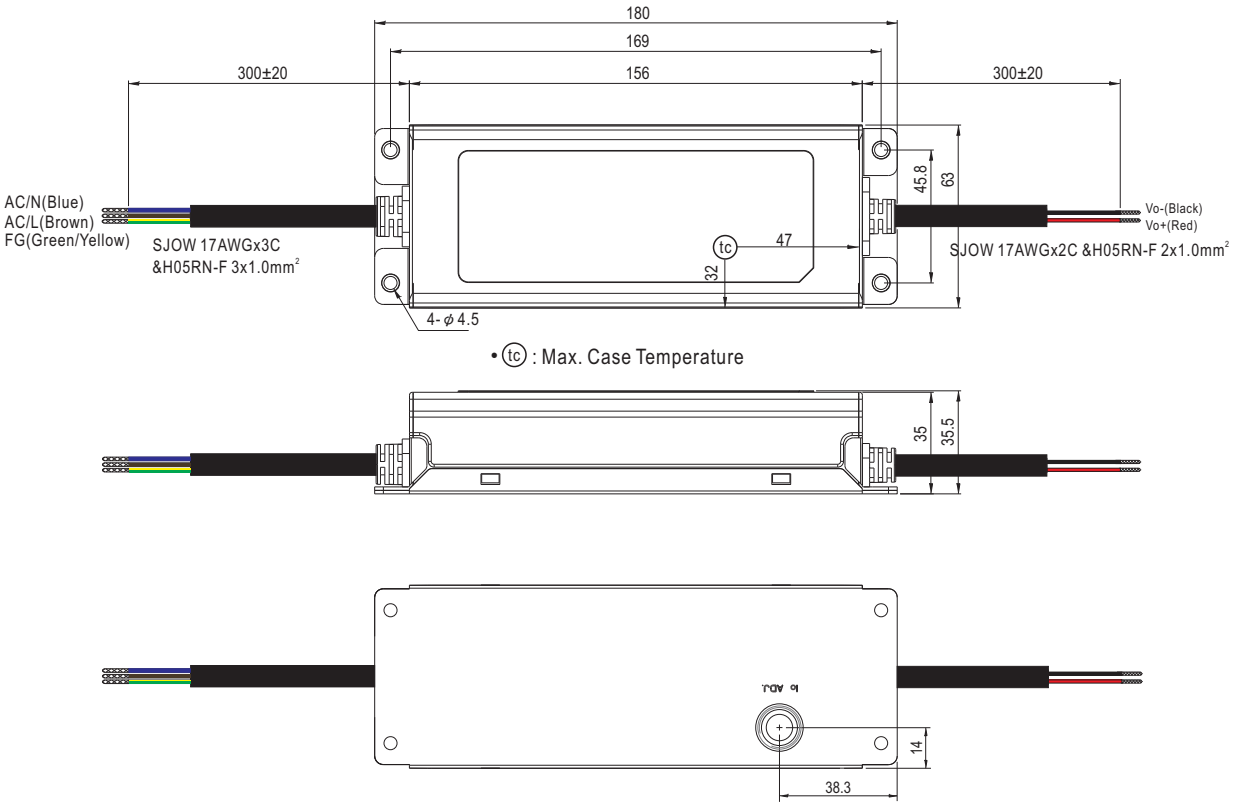


• tc : Max. Case Temperature

■ MECHANICAL SPECIFICATION

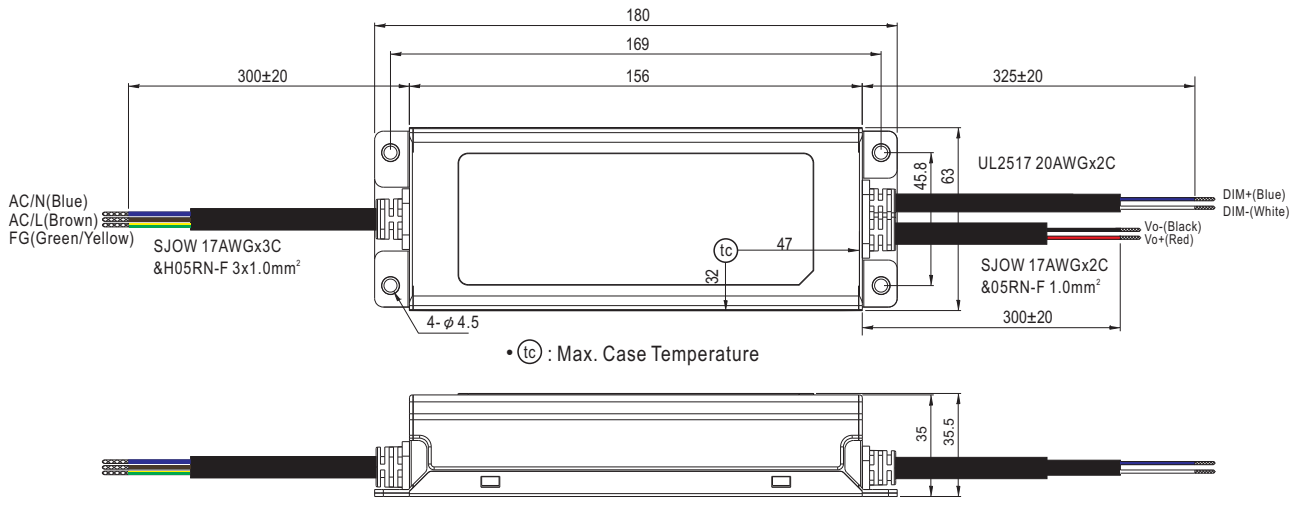
Case No.: 243A Unit:mm

※ A-Type



• tc : Max. Case Temperature

※ AB-Type



• tc : Max. Case Temperature

■ INSTALLATION MANUAL

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

MEAN WELL

200W Constant Power Mode LED Driver

XLG-200 series

SELV (Except for L type) IP67 Type HL Note.12

Features

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

Applications

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

Description

XLG-200 series is a 200W LED AC/DC driver featuring the constant power mode. XLG-200 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 16A. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for -40℃~+90℃ 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-200 is designed with the latest version of IEC61347/GB7000.1-2015 and UL8750 international safety regulations. The output and dimming lines are also completely in accordance with the new regulations with isolation to ensure the users and luminaire system safety durng installation

Model Encoding

XLG - 200 [I] - [L] - [ ]

- [ ] Function options
- [L] Rated output voltage(12/24V ,or L/H types)
- [I] I: for India version; [ ]: For standard version
- 200 Rated wattage
- XLG Series name

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: 12V and 24V models only with Blank and A type

SPECIFICATION

MODEL		XLG-200-12-□	XLG-200-24-□
OUTPUT	DC VOLTAGE	12V	24V
	CONSTANT CURRENT REGION Note.2	8.4~ 12V	16.8~ 24V
	RATED CURRENT	16A	8.3A
	RATED POWER	192W	199.2W
	RIPPLE & NOISE (max.) Note.3	150mVp-p	240mVp-p
	CURRENT ADJ. RANGE	Adjustable for A-Type only (via the built-in potentiometer)	
		8 ~ 16A	4.15 ~ 8.3A
	VOLTAGE TOLERANCE Note.4	±3.0%	±2.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±2%	±1%
	SETUP, RISE TIME Note.6	500ms, 100ms/230VAC, 1200ms, 100ms/115VAC	
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 115VAC	
INPUT	VOLTAGE RANGE Note.5	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%/115VC,230VAC; @load≧75%/277VAC)	
	EFFICIENCY (Typ.)	92%	94%
	AC CURRENT	2.2A / 115VAC 1.1A / 230VAC 0.9A/277VAC	
	INRUSH CURRENT(Typ.)	COLD START 65A(twidth=550μs measured at 50% Ipeak) at 230VAC; Per NEMA 410	
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC	
	LEAKAGE CURRENT	<0.75mA / 277VAC	
	NO LOAD POWER CONSUMPTION	No load power consumption <0.5W	
PROTECTION	OVER CURRENT	95 ~ 108%	
		Constant current limiting, recovers automatically after fault condition is removed	
	SHORT CIRCUIT	Hiccup mode, 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 Note.7	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage)	
		can survive input voltage stress of 440Vac for 48 hours	
	OVER TEMPERATURE	Shut down output voltage, recovers automatically after fault condition is removed	
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 ~ +90℃, 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	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1 , GB19510.14; EAC TP TC 004;IP67 approved	
	WITHSTAND VOLTAGE	I/P-O/P:4.2KVAC I/P-FG:2.1KVAC 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	Compliance to EN55015,EN61000-3-2 Class C (@load≧50%) ; EN61000-3-3;	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)(10K/6KV option)	
OTHERS	MTBF	749.06K hrs min. Telcordia SR-332 (Bellcore) ; 200.67Khrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	199*63*35.5mm (L*W*H)	
	PACKING	0.85Kg;16pcs /14.2Kg /0.72CUFT	

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.
2. Please refer to "DRIVING METHODS OF LED MODULE".
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
4. Tolerance : includes set up tolerance, line regulation and load regulation.
5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
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.
7. Only for XLG-200 I series
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-qualify EMC Directive on the complete installation again.
9. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70℃ or less.
10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
11. 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).
12. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information.
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

MEAN WELL

200W Constant Power Mode LED Driver

XLG-200 series

SPECIFICATION

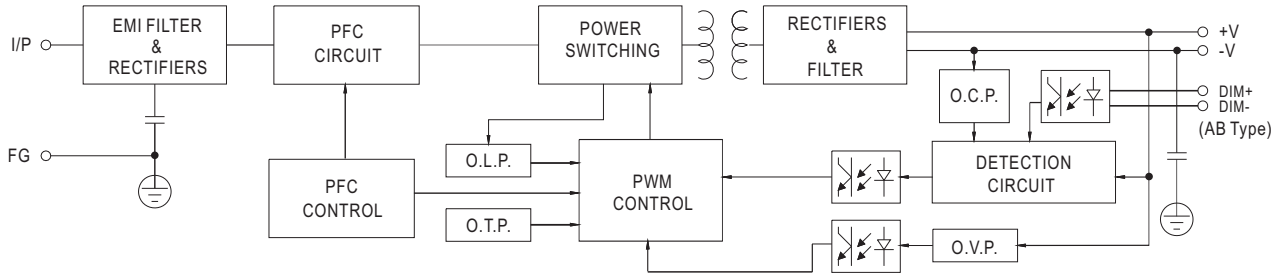
MODEL		XLG-200-L-□	XLG-200-H-□
OUTPUT	RATED CURRENT	700mA	3500mA
	RATED POWER	200W	200W
	CONSTANT CURRENT REGION Note.2	142 ~285V	27 ~ 56V
	FULL POWER CURRENT RANGE	700~1050mA	3500~5550mA
	OPEN CIRCUIT VOLTAGE (max.)	300V	60V
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via the built-in potentiometer)	
		350~1050mA	1750~5550mA
	CURRENT RIPPLE	3.0%(@ Load≧50% rated voltage)	
	CURRENT TOLERANCE	±5%	
	SET UP TIME Note.4	500ms/230VAC, 1200ms/115VAC	
INPUT	VOLTAGE RANGE Note.3	100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" ang " 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.)	94%	93%
	AC CURRENT (Typ.)	2.2A / 115VAC 1.1A / 230VAC 0.9A / 277VAC	
	INRUSH CURRENT(Typ.)	COLD START 65A(t_{width}=550μs measured at 50% I_{peak}) at 230VAC; Per NEMA 410	
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	3 unit(circuit breaker of type B) / 6 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)	
PROTECTION	SHORT CIRCUIT	Hiccup mode or Constant current limiting,recovers automatically after fault condition is removed	
	OVER VOLTAGE	301 ~ 360V	61 ~ 78V
		Shut down output voltage, re-power on to recovery	
	INPUT OVER VOLTAGE Note.5	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage)	
		can survive input voltage stress of 440Vac for 48 hours	
	OVER TEMPERATURE	Shut down output voltage, recovers automatically after fault condition is removed	
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 non-condensing	
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60℃)	
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1 , GB19510.14; EAC TP TC 004;IP67 approved	
	WITHSTAND VOLTAGE	I/P-O/P:4.2KVAC I/P-FG:2.1KVAC 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	Compliance to EN55015, EN61000-3-2 Class C (@ load≧50%); EN61000-3-3	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)(10K/6KV option)	
OTHERS	MTBF	749.06Khrs min. Telcordia SR-332(Bellcore) ; 200.67Khrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	199*63*35.5mm (L*W*H)	
	PACKING	0.85Kg;16pcs/14.2Kg/0.72CUFT	

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.
2. Please refer to "DRIVING METHODS OF LED MODULE".
3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
4. 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.
5. Only for XLG-200 I series
6. 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-qualify EMC Directive on the complete installation again.
7. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70℃ or less.
8. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
9. 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).
10. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.
11. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information.
12. 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

■ BLOCK DIAGRAM

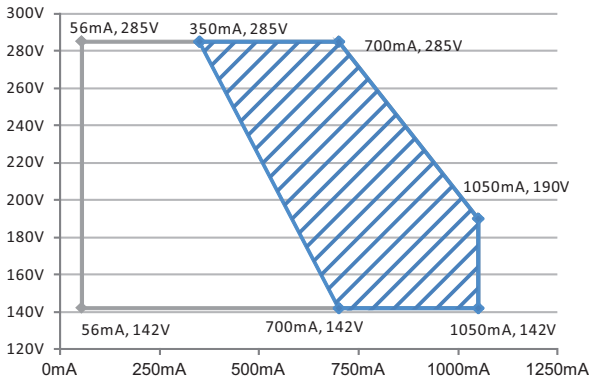
PFC fosc : 50~120KHz
PWM fosc : 60~130KHz



■ DRIVING METHODS OF LED MODULE

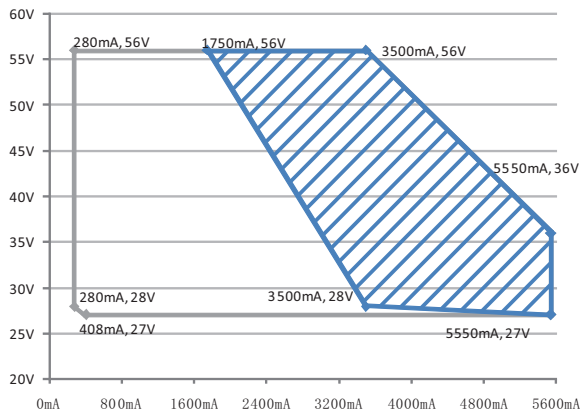
※ I-V Operating Area

◎ **XLG-200-L**



Recommend Performance Region Allow Operation Region

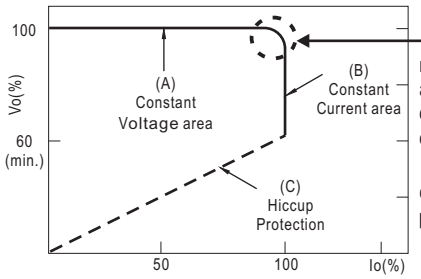
◎ **XLG-200-H**



Recommend Performance Region Allow Operation Region

◎ **XLG-200-12,24**

※ 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.



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 please contact MEAN WELL.

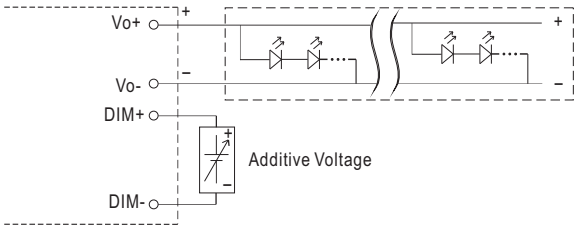
Typical output current normalized by rated current (%)

■ DIMMING OPERATION

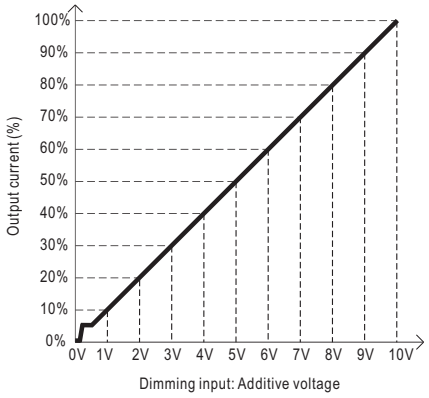
※ 3 in 1 dimming function (for AB-Type)

- 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 μA (typ.)

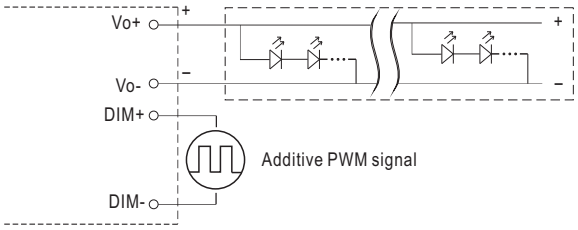
◎ Applying additive 0 ~ 10VDC



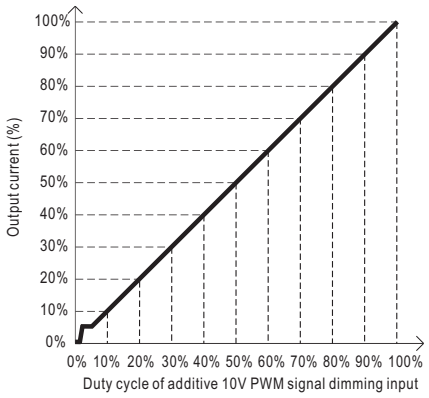
"DO NOT connect "DIM- to Vo-"



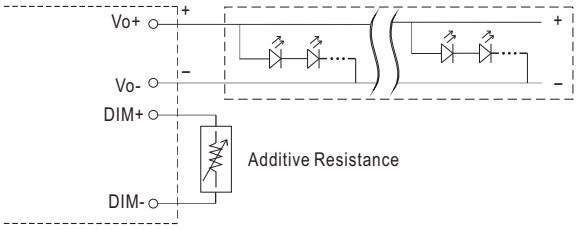
◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



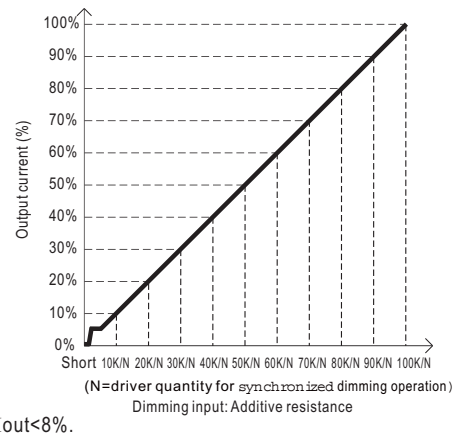
"DO NOT connect "DIM- to Vo-"



◎ Applying additive resistance:

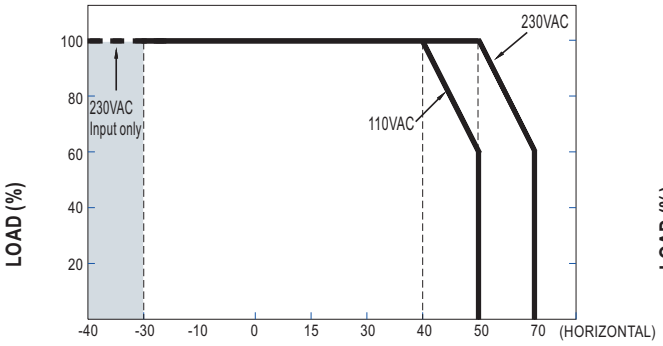


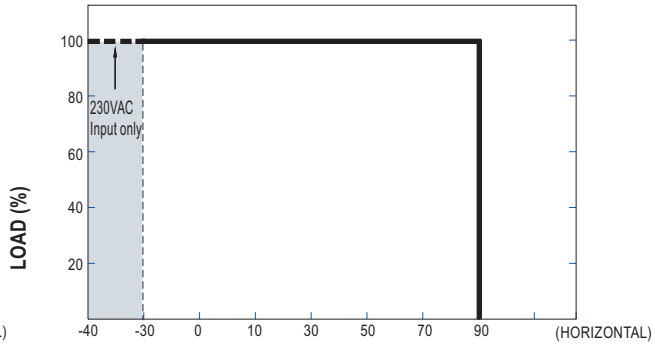
"DO NOT connect "DIM- to Vo-"



Note : 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<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.

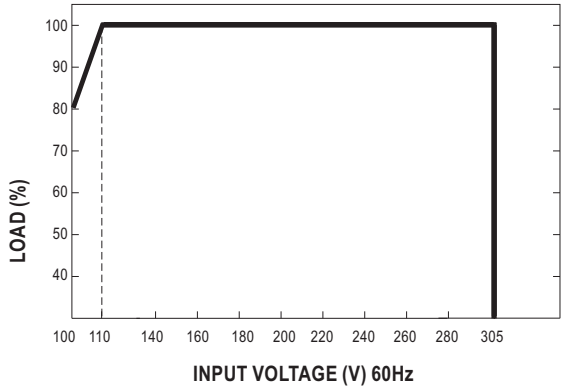
■ OUTPUT LOAD vs TEMPERATURE





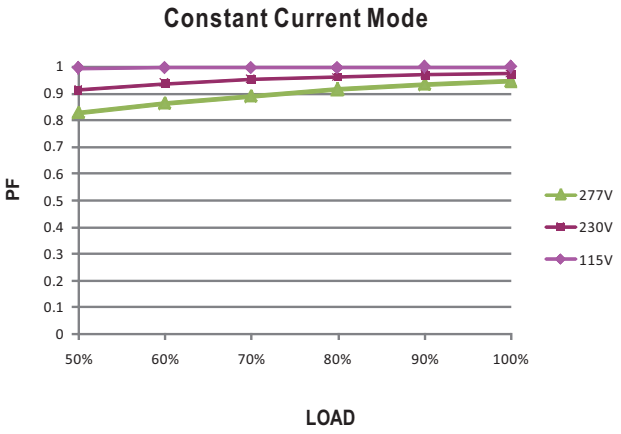
If XLG-200 operates in Constant Power mode with the rated current the maximum workable Ta is 50℃ (Typ. 230VAC) or 40℃ (typ.110VAC)

■ STATIC CHARACTERISTIC



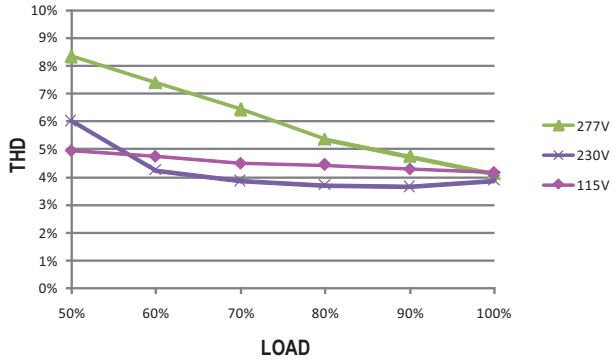
■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75℃



■ TOTAL HARMONIC DISTORTION (THD)

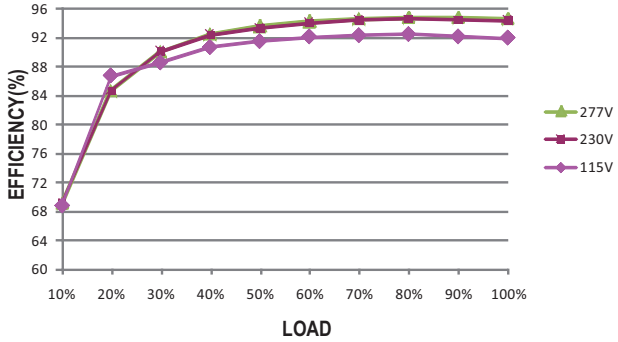
※ XLG-200-L Model, Tcase at 75℃



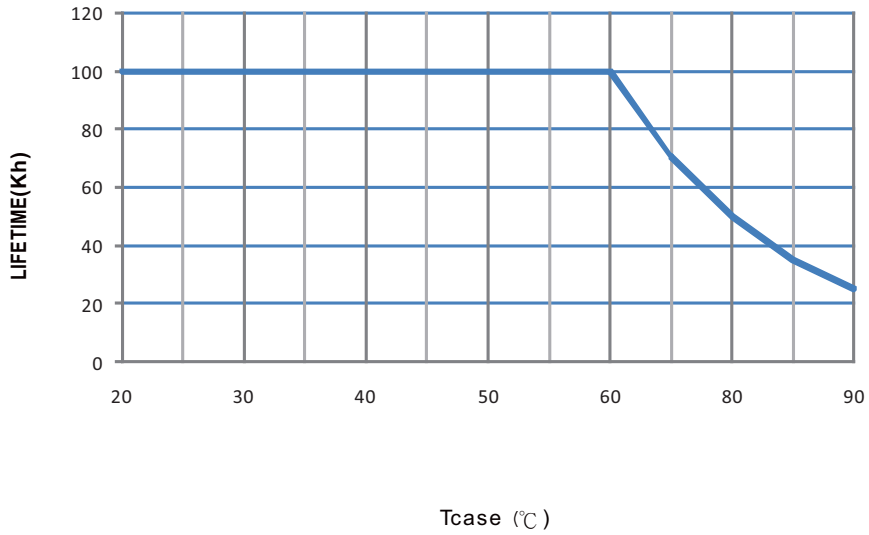
■ EFFICIENCY vs LOAD

XLG-200 series possess superior working efficiency that up to 94% can be reached in field applications.

※ XLG-200-L Model, Tcase at 75℃



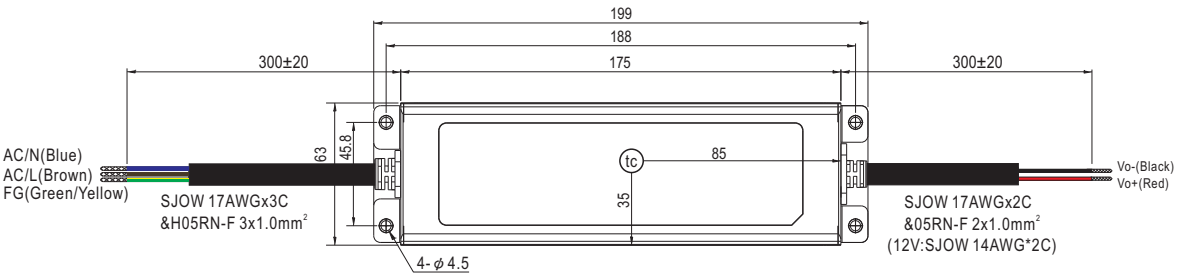
■ LIFE TIME



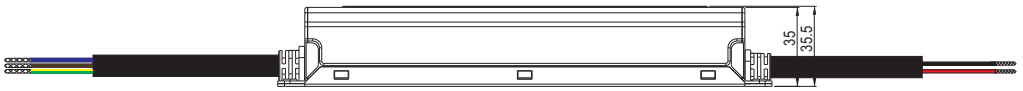
■ MECHANICAL SPECIFICATION

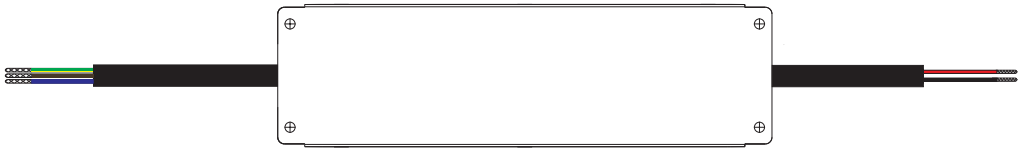
Case No.:244A Unit:mm

※ **Blank-Type**



• tc : Max. Case Temperature

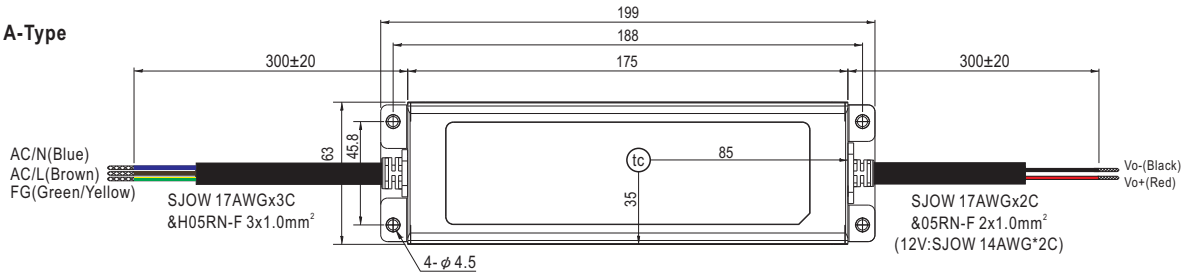




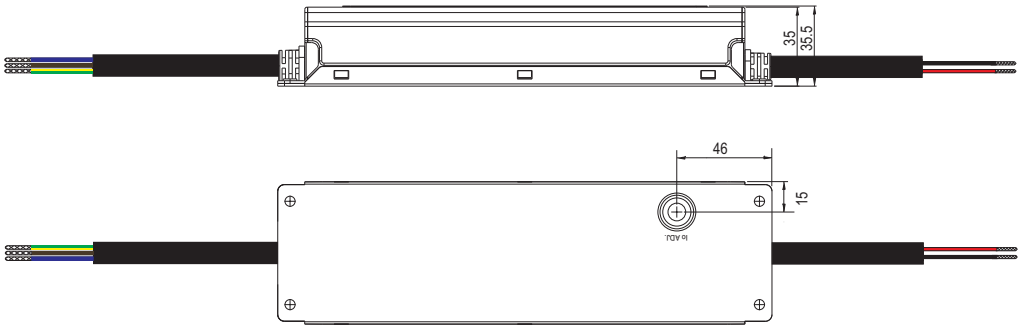
■ MECHANICAL SPECIFICATION

Case No.:244A Unit:mm

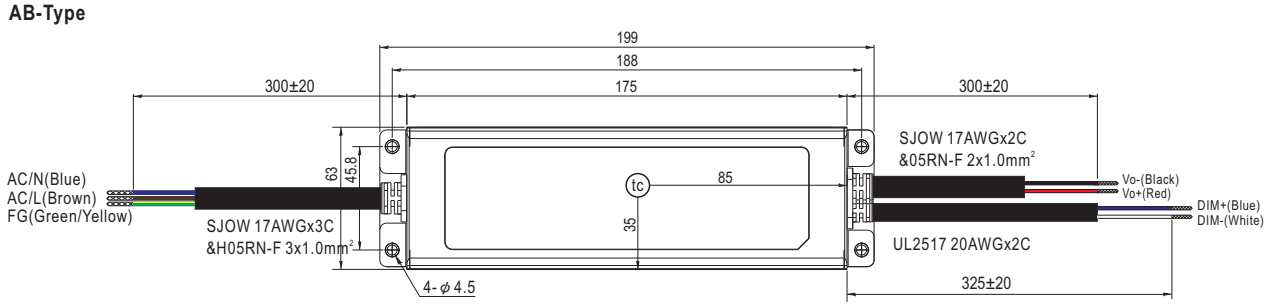
※ A-Type



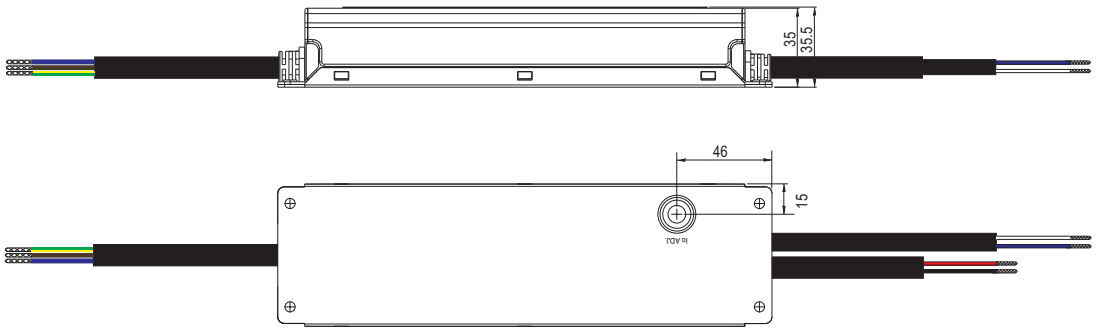
• tc : Max. Case Temperature



※ AB-Type



• tc : Max. Case Temperature



■ INSTALLATION MANUAL

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