



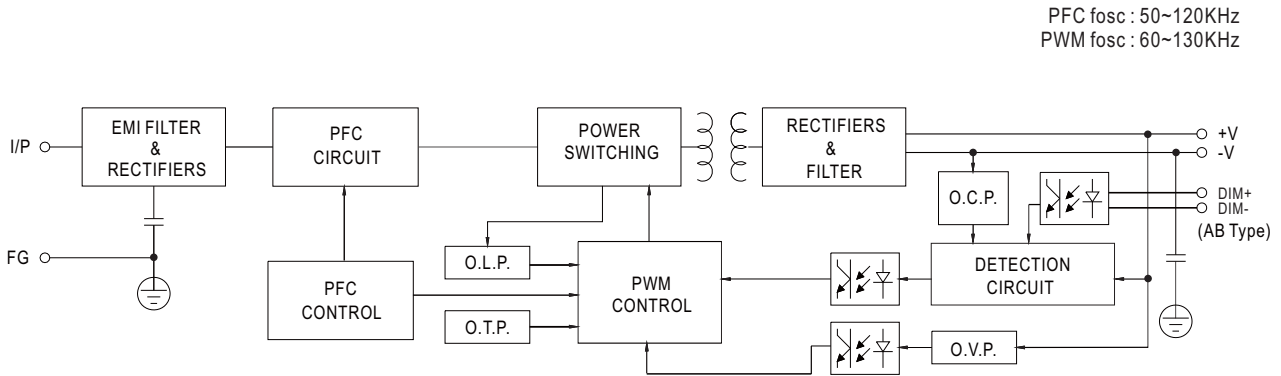
**SPECIFICATION**

MODEL		XLG-150□-12-□	XLG-150□-24-□	
OUTPUT	DC VOLTAGE	12V	24V	
	CONSTANT CURRENT REGION <small>Note.2</small>	8.4~ 12V	16.8~ 24V	
	RATED CURRENT (Default)	12.5A	6.25A	
	RATED POWER	150W	150W	
	RIPPLE & NOISE (max.) <small>Note.3</small>	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 <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.)	10ms/ 230VAC 10ms/ 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.)	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 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	
	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 @ tc 75°C max		
	OVER TEMPERATURE	Shut down output voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)		
	MAX. CASE TEMP.	Tcase=+90°C		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +90°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.06%/°C (0 ~ 60°C)		
VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes			
SAFETY & EMC	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-150I 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%
	EMC IMMUNITY	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 2
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 2	
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	2269.5K hrs min. Telcordia SR-332 (Bellcore); 213.3Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	180*63*35.5mm (L*W*H)		
	PACKING	0.8Kg;16pcs / 13.4Kg /0.67CUFT		
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 &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 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 over voltage only for XLG-150 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 <a href="http://www.meanwell.com">http://www.meanwell.com</a></p> <p>11. This series meets the typical life expectancy of &gt;50,000 hours of operation when Tcase, particularly (C) point (or TMP, per DLC), is about 75°C or less.</p> <p>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.</p> <p>13. For any application note and IP water proof function installation caution, please refer our user manual before using. <a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a></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>			

**SPECIFICATION**

MODEL		XLG-150□-L-□	XLG-150□-M-□	XLG-150□-H-□
OUTPUT	RATED CURRENT (Default)	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)		
	CURRENT RIPPLE	4.0%(@ full load)	3.0%(@ full load)	3.0%(@ full load)
	CURRENT TOLERANCE	±5%		
SET UP TIME	500ms/230VAC, 1200ms/115VAC			
INPUT	VOLTAGE RANGE <b>Note.5</b>	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.)	93%	92.5%	92%
	AC CURRENT (Typ.)	1.8A / 115VAC 1.0A / 230VAC 0.8A/277VAC		
	INRUSH CURRENT(Typ.)	COLD START50A(twidth=500μs measured at 50% Ipeak) 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 <b>Note.14</b>	Standby power consumption <0.5W for AB-Type(Dimming OFF)(for standard version)		
PROTECTION	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed		
	OVER VOLTAGE	230 ~ 265V	128~ 150V	61 ~ 85V
	INPUT OVER VOLTAGE <b>Note.7</b>	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 @ tc 75°C max		
	OVER TEMPERATURE	Shut down output voltage, re-power on to recover		
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)		
ENVIRONMENT	MAX. CASE TEMP.	Tcase=+90°C		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-condensing		
	TEMP. COEFFICIENT	±0.06%/°C (0 ~ 60°C)		
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
	SAFETY & EMC	SAFETY STANDARDS <b>Note.7</b>	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-150l 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		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 2	
	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 2	
	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	2269.5K hrs min. Telcordia SR-332 (Bellcore) ; 213.3Khrs min. MIL-HDBK-217F (25°C)		
	LIFETIME <b>Note.4</b>	50000 hrs min.		
	DIMENSION	180*63*35.5mm (L*W*H)		
	PACKING	0.8Kg;16pcs/13.4Kg/0.67CUFT		
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 &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 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 over voltage only for XLG-150 l series ,and l 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-qualify 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 <a href="http://www.meanwell.com">http://www.meanwell.com</a></p> <p>11. This series meets the typical life expectancy of &gt;50,000 hours of operation when Tcase, particularly (Tc) point (or TMP, per DLC), is about 75°C or less.</p> <p>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.</p> <p>13. For any application note and IP water proof function installation caution, please refer our user manual before using. <a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a></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 <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>			

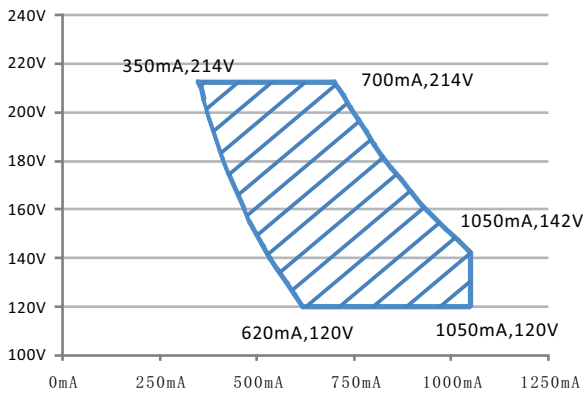
**■ BLOCK DIAGRAM**



**■ DRIVING METHODS OF LED MODULE**

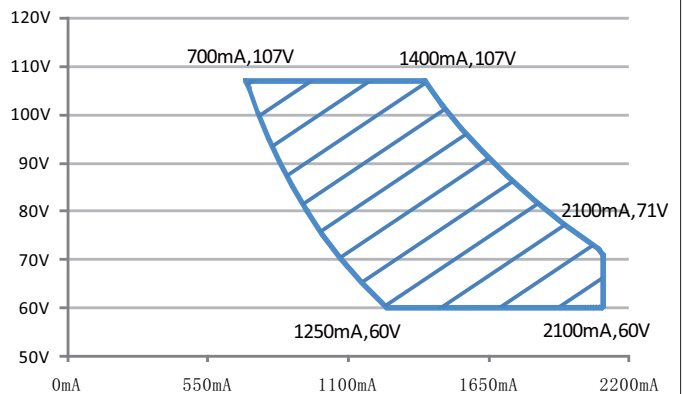
※ I-V Operating Area

◎ XLG-150-L



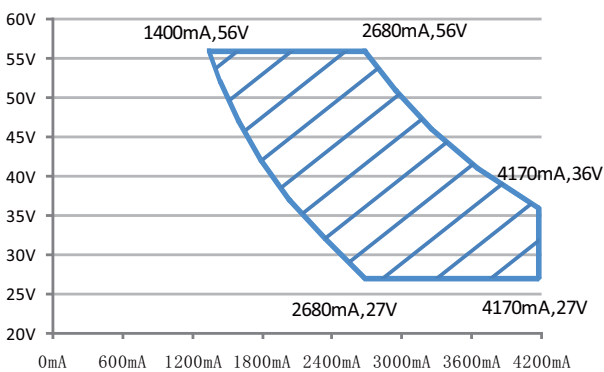
Recommend Performance Region

◎ XLG-150-M



Recommend Performance Region

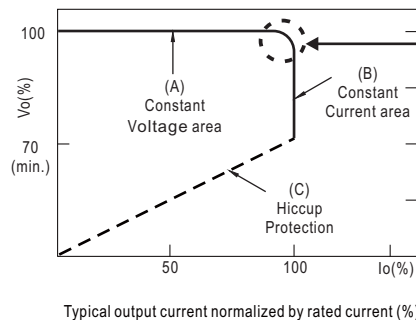
◎ XLG-150-H



Recommend Performance Region

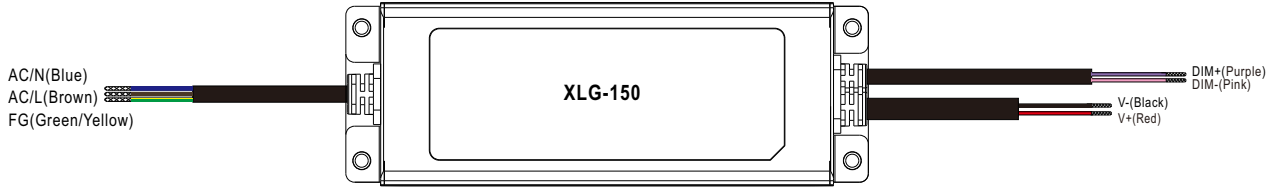
◎ XLG-150-12,24

※ 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 contact MEAN WELL.

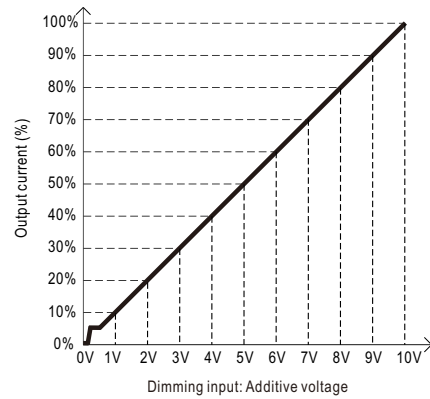
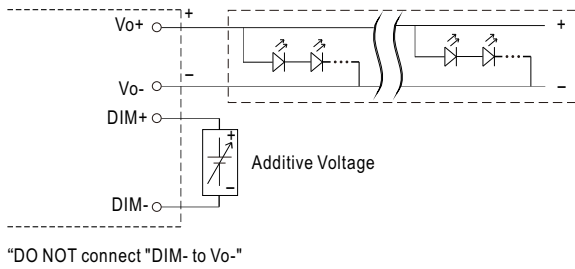
**■ DIMMING OPERATION**



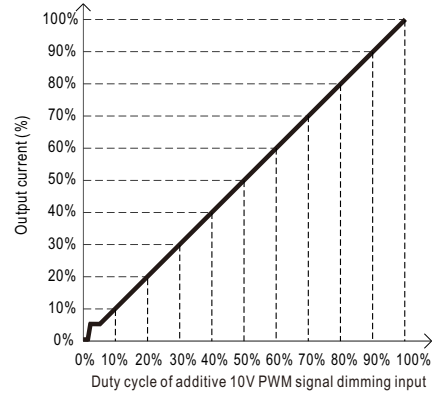
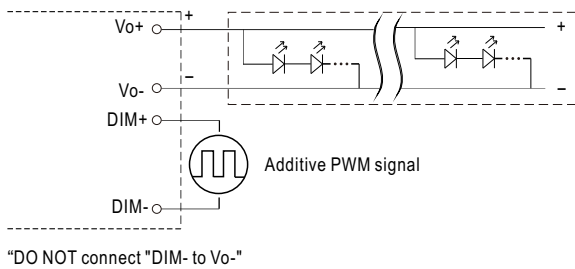
※ **3 in 1 dimming function (for AB-Type)**

- 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  $\mu$  A (typ.)

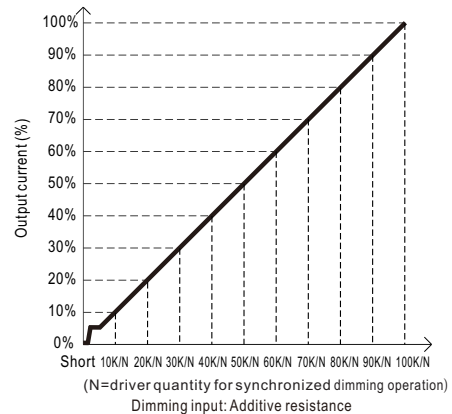
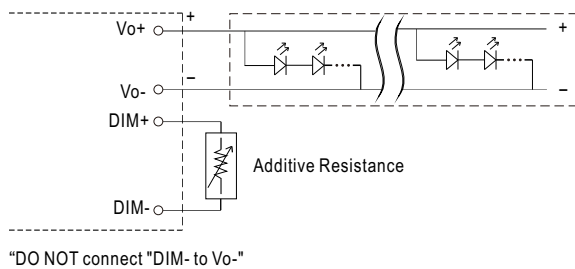
◎ Applying additive 0 ~ 10VDC



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

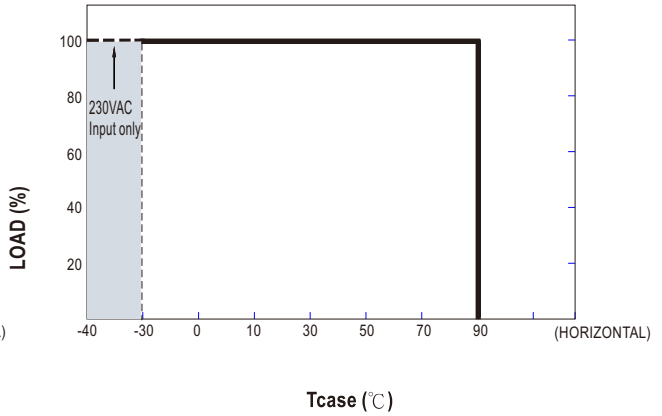
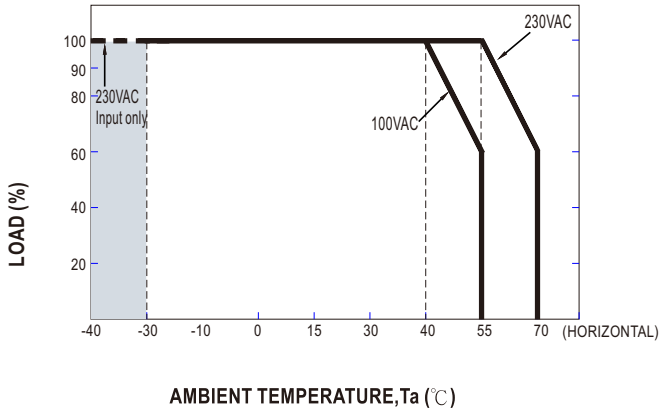


◎ Applying additive resistance:



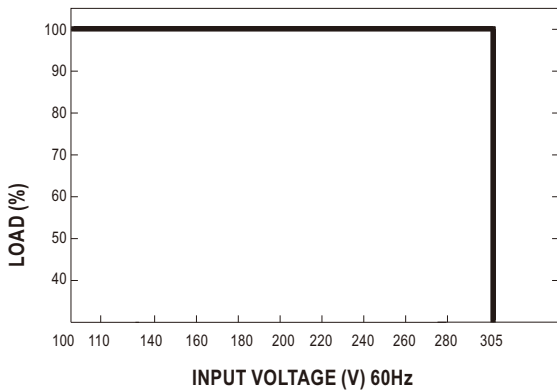
Note : 1. Min. dimming level is about 8% and the output current is not defined when  $0\% < I_{out} < 8\%$ .  
 2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

### OUTPUT LOAD vs TEMPERATURE

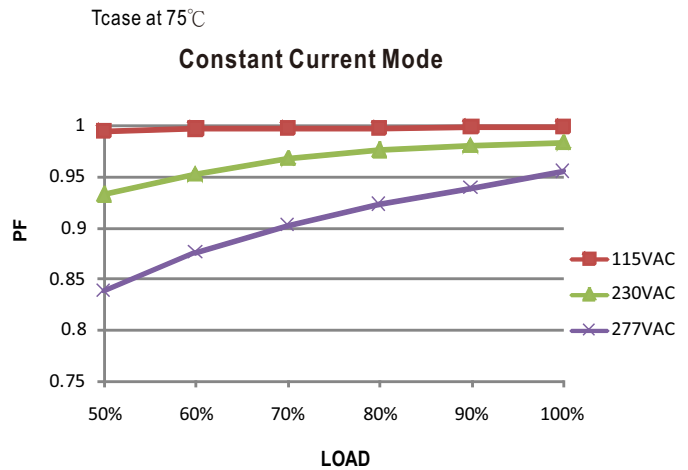


If XLG-150 operates in Constant Current mode with the rated current the maximum workable Ta is 55°C (Typ. 230VAC) or 40°C (Typ. 100VAC)  
Below 110VAC@ -30°C may retry to 2nd setup

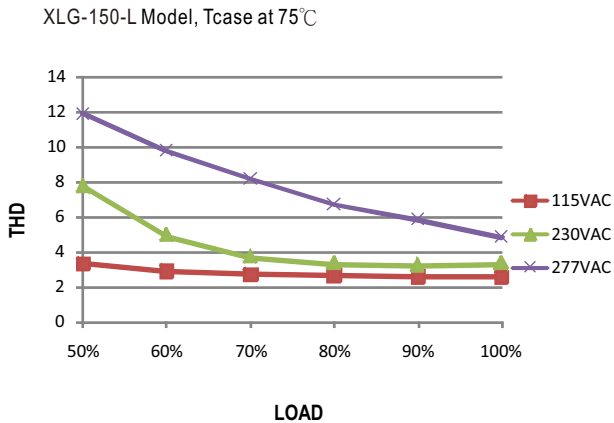
### STATIC CHARACTERISTIC



### POWER FACTOR (PF) CHARACTERISTIC

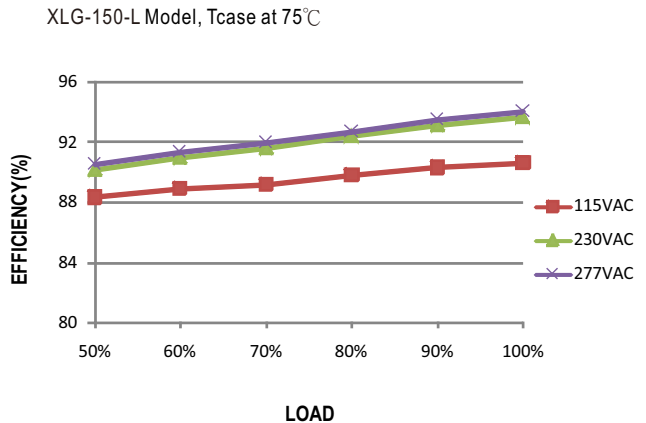


### TOTAL HARMONIC DISTORTION (THD)



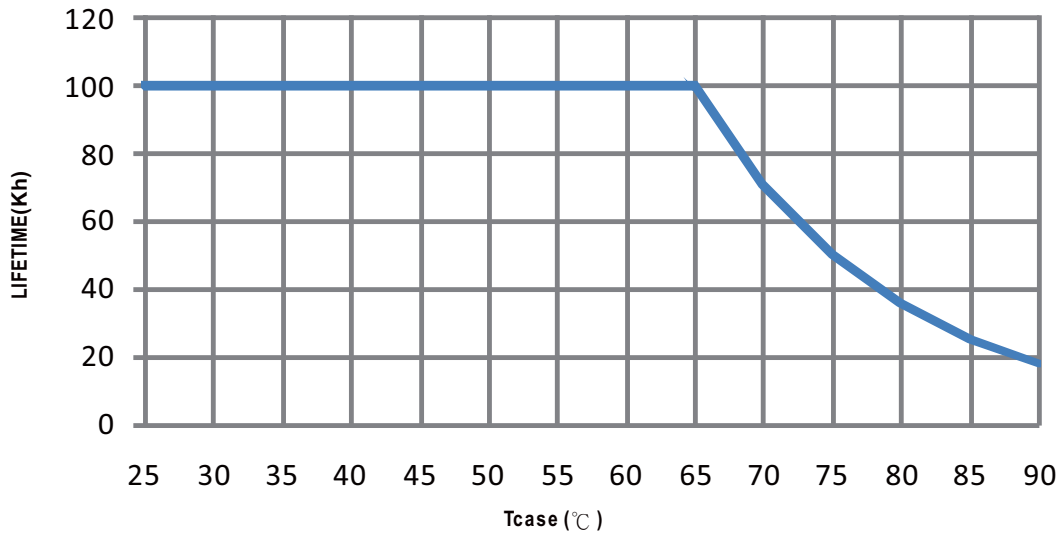
### EFFICIENCY vs LOAD

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





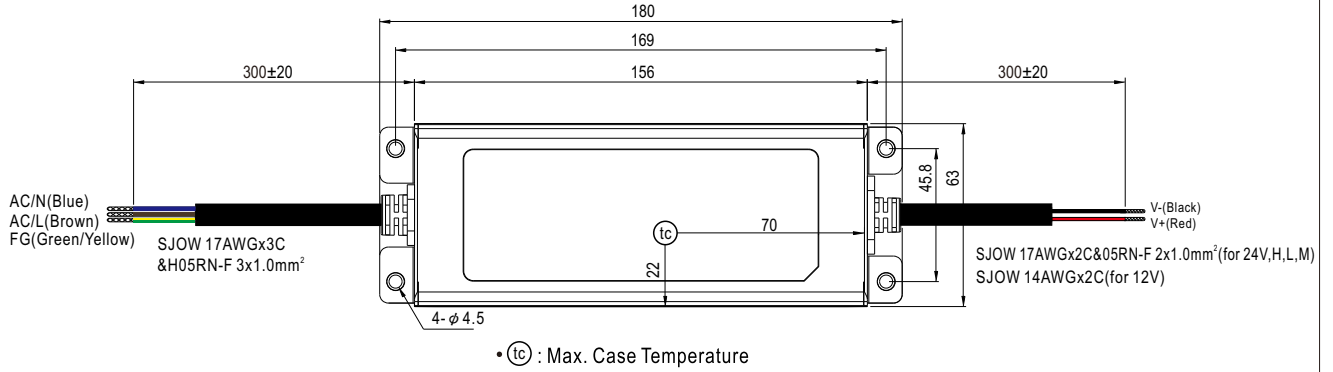
■ LIFE TIME



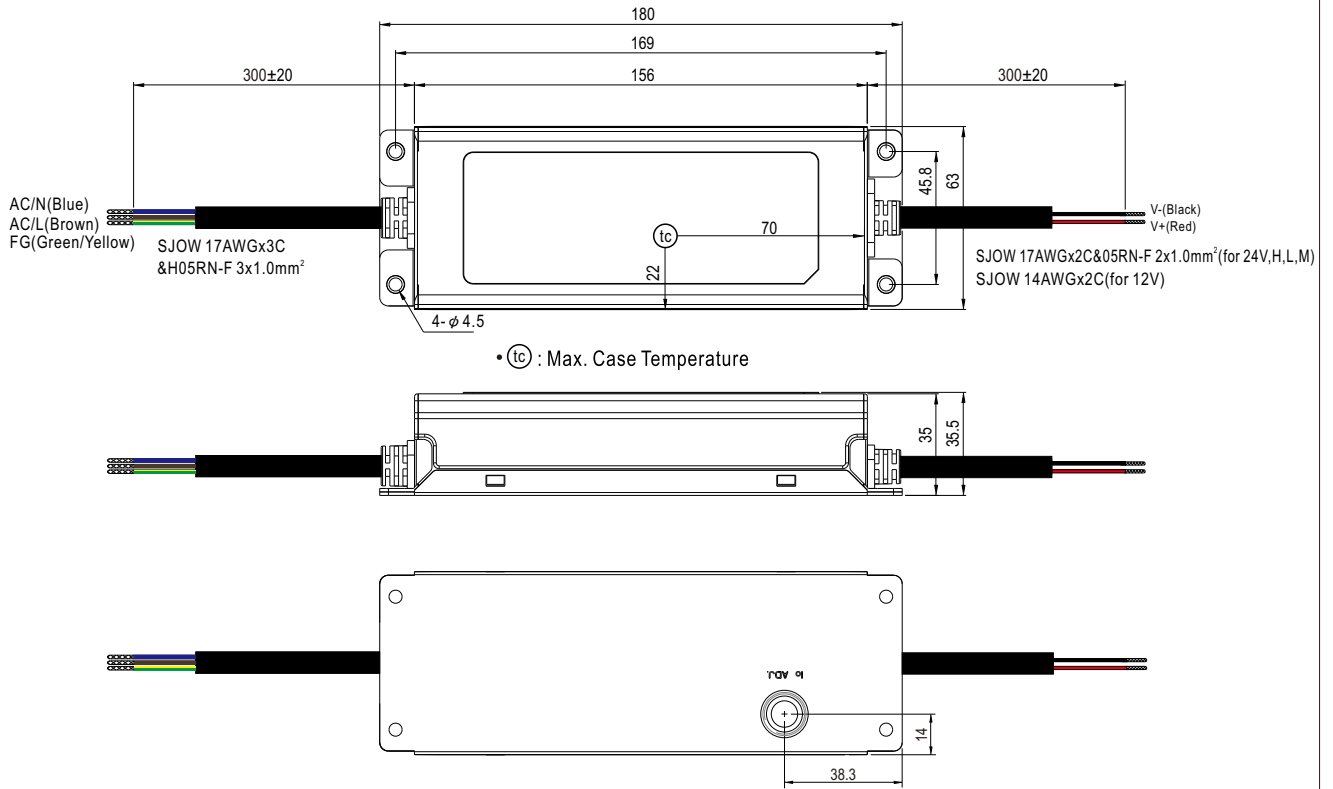
**MECHANICAL SPECIFICATION**

Case No.: 243A Unit:mm

※ Blank-Type

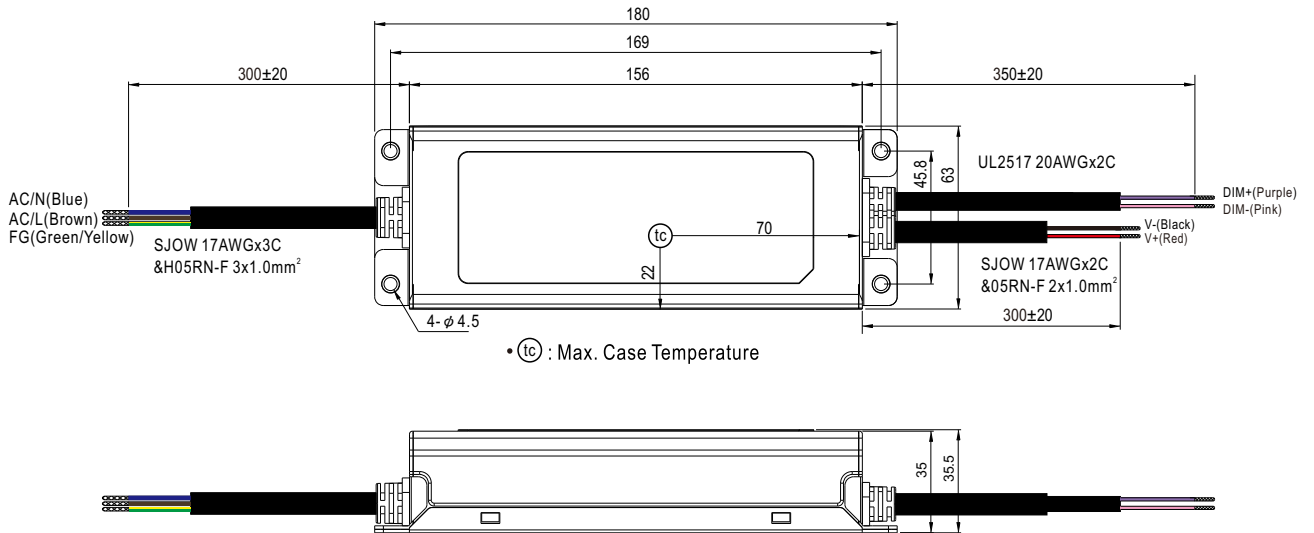


※ A-Type





※ **AB-Type**



■ **INSTALLATION MANUAL**

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