





























■ 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
- Class 2 power unit(except for L type)
- Surge protection with 6KV/4KV
- 3 in 1 dimming function (Dim to off and Isolation design)
- India (EESL) version with Input Over Voltage Protection can survive input voltage stress of 440Vac for 48 hours
- Protection functions: OVP/SCP/OCP/OTP
- Compliance to EN60335-1 household application
- Life time >50,000 hrs. and 5 years warranty

Applications

- Skyscraper lighting
- Street lighting
- · Floodlight Lighting
- Stage lighting
- · Horticulture lighting
- · Bay lighting
- DMX power supply
- Type HL for use in class I, Division 2
- · Household devices
- · Retail and refrigerated display

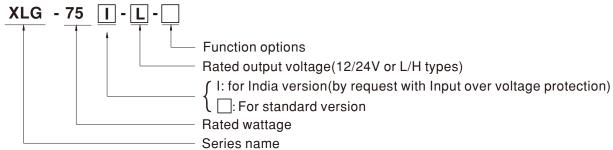
■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

XLG-75 series is a 75W LED AC/DC driver featuring the constant power mode.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°C∼+90°C case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. Moreover the innovative environment-adaptive capability allows this series to reliably light on the LEDs for all kinds of application environments in almost any spots that may install LED luminaires in the world. XLG-75 series comply with the latest version of IEC61347/GB19510.1 and UL8750 international safety regulations. The output and dimming circuit are also completely in accordance with the new regulations with isolation to ensure the safety of both user and luminaire system during installation.

Model Encoding



Туре	Function	Note
Blank	Io and Vo fixed.(For harsh envirenment)	By request
Α	lo 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
CV	CV-type only with constant voltage function and only for 12V and 24V models, lo and Vo are fixed.	By request

Note: 1.12V and 24V models without the AB type

2.India version needs MOQ for production, please consult MEANWELL for detail



PECIFIC	ATION	W. O C. 40 C.						
MODEL		XLG-75 -12-		.G-75 □-24- □				
	DC VOLTAGE	12V	24\					
	CONSTANT CURRENT REGION Note.2	8.4~ 12V	16.8	16.8~ 24V				
	RATED CURRENT (Default)	5A	3.1					
	RATED POWER	60W		74.4W				
	RIPPLE & NOISE (max.) Note.3	150mVp-p	240	240mVp-p				
	CURRENT ADJ RANGE	2.5A~5A		1.55A~3.1A				
UTPUT	VOLTAGE TOLERANCE Note.4			±2.0%				
	LINE REGULATION	±0.5%	±0.	.5%				
	LOAD REGULATION	±2%	±19	%				
	SETUP, RISE TIME Note.6	500ms, 100ms/230VAC, 1200ms, 100ms/115VA	NC .					
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 115VAC						
	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; @loa	d≧75%/277VAC)					
IPUT	EFFICIENCY (Typ.)	89%	90%	%				
	AC CURRENT	1.0A / 115VAC	/AC					
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300us measured at 50	0% Ipeak) at 230VAC; Per NEM	A 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(for sta	indard version)					
		110~160% for CV type, 95~108% for other type						
	OVER CURRENT	CV-type: Hiccup mode only; Other type: Hiccup or constant current limiting; Recovers automatically after fault condition is removed						
	SHORT CIRCUIT	CV-type: Hiccup mode only; Other type: Hiccup o		· · · · · · · · · · · · · · · · · · ·				
ROTECTION		13~19V		~ 36V				
	OVER VOLTAGE	Shut down output voltage, re-power on to recov						
		320 ~ 370VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault						
	INPUT OVER VOLTAGE	condition is removed)						
	0. 0. 2	Can survive input voltage stress of 440Vac for 48 hours(Input over voltage only for XLG-75I series)						
	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)						
	MAX. CASE TEMP.	Tcase=+90°C						
	WORKING HUMIDITY	-						
VVIRONMENT	STORAGE TEMP., HUMIDITY	20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH						
WIKONWENT	TEMP. COEFFICIENT							
		±0.03%/°C (0 ~ 60°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min.						
	SAFETY STANDARDS Note.7	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,EN 60335-compliant to EN 60335-2-89 Annex BB, EN 60335-2-24 Annex CC;GB19510.1, GB19510.14; EAC TPTC 004;J61347-1(H29), J61347-2-13(H29) KC61347-1,KC61347-2-13,IS15885(Part2/Sec13)(for XLG-75I type only); OM-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						
		Parameter	Standard		Test Level/Note			
	EMC EMISSION	Conducted	BS EN/EN55015(CISPR15)	GB/T 17743				
		Radiated	BS EN/EN55015(CISPR15)					
		Harmonic Current	, , ,		Class C @load≥50%			
			BS EN/EN61000-3-2 ,GB17	020.1				
MC		Voltage Flicker	BS EN/EN61000-3-3					
AFETY &		BS EN/EN61547	Ta		I =			
	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 3			
		EFT/Burst	BS EN/EN61000-4-4		Level 3			
		Surge	BS EN/EN61000-4-5		4KV/Line-Line 6KV/Line-Earth			
		Conducted	BS EN/EN61000-4-6		Level 3			
		Magnetic Field	BS EN/EN61000-4-8		Level 4			
		- 0			>95% dip 0.5 periods, 30% dip 25 periods,			
		Voltage Dips and Interruptions	BS EN/EN61000-4-11		>95% interruptions 250 periods			
	MTBF	3404.7K hrs min. Telcordia SR-332 (Bellcore)	; 276.3Khrs min. MIL-HDI	 BK-217F (25°ℂ)				
THERS	DIMENSION	140*63*32mm (L*W*H)						
-	PACKING	0.58Kg;24pcs /15Kg /0.85CUFT						
		10.00kg,24pcs r10kg r0.00c0r1 slly mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.						
OTE	2. Please refer to "DRIVING N	IN THEMIONED ARE THEASURED AT 250 VAC INDUIT, rated corrent and 25°C of ambient temperature. METHODS OF LED MODULE". (Except for CV-type) and at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation.						

- 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 CE/ENEC/CB is available for CV-type. XLG-75I series without UL/CSA certificate.

 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.

 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

 9. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C 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°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

 12. Products sourced from the Americas regions may not have the PSE/CCC/BIS/KD (logo. Please contact your MEAN WELL sales for more information.

 13. To Iulfilli requirements of the latest ErP regulation for lighting fixtures, this Lightures, this Logo. Please contact your MEAN WELL sales for more information.

 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

 15. If you need the NOM (Mexico) certificate, Please contact MEAN WELL sales representative for details.

 16. For A/AB type need to consider build in using to comply with Type HL application.

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SPECIFICATION

MODEL		XLG-75 □ -L- □	XLG-75 □-H- [
	RATED CURRENT (Default)	700mA	1400mA					
	RATED POWER	74.9W	75.6W					
	CONSTANT CURRENT REGION		27 ~ 56V					
	FULL POWER CURRENT RANGE		1300~2100mA					
UTPUT	OPEN CIRCUIT VOLTAGE (max.)	115V	60V					
OUIFUI	CURRENT ADJ. RANGE	350~1050mA 650~2100mA						
	CURRENT RIPPLE	3.0%(@rated current)	000 210011111					
	CURRENT TOLERANCE	±5%						
	SET UP TIME	±5% 500ms/230VAC, 1200ms/115VAC						
	OLI OI TIME							
	VOLTAGE RANGE Note.5	100 ~ 305VAC						
	FREQUENCY RANGE	47 ~ 63Hz						
	FREQUENCTRANGE							
	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)						
NBUT	FFFICIENCY (Tue)	Please refer to "TOTAL HARMONIC DISTORTION (THD)" section						
NPUT	EFFICIENCY (Typ.)	91% 90%						
	AC CURRENT (Typ.)	1A / 115VAC 0.45A / 230VAC 0.38A / 3						
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300µs measured at 50% lpeak) at 230VAC; Per NEMA 410						
	MAX. NO. of PSUs on 16A	9 unit(circuit breaker of type B) / 14 units(circuit	breaker of type C) at 230VAC					
	CIRCUIT BREAKER							
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	STANDBY	Standby power consumption <0.5W for AB-Type	(Dimming OFF)(for standard version)					
	POWER CONSUMPTION	Standby power consumption <0.5W for AB-Type(Dimming OFF)(for standard version)						
	OVER DOWER	110~150%						
	OVER POWER	Hiccup mode, recovers automatically after fault	condition is removed					
DOTECTION	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed						
ROTECTION		320 ~ 370VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault						
	INPUT OVER VOLTAGE	condition is removed)						
		Can survive input voltage stress of 440Vac for 48 hours(Input over voltage only for XLG-75I series)						
	OVER TEMPERATURE	Shut down output voltage, re-power on to recovery						
	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						
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-condensing						
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
	SAFETY STANDARDS Note.7	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384;EN 60335-1 compliant to EN 60335-2-89 Annex BB, EN 60335-2-24 Annex CC;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-751 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						
AFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VD0						
EMC		Parameter	Standard	Test Level/Note				
		Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743					
			BS EN/EN55015(CISPR15) ,GB/T 17743					
	EMC EMISSION	Radiated	, , ,					
		Harmonic Current	BS EN/EN61000-3-2 ,GB17625.1	Class C @load≥50%				
		Voltage Flicker	BS EN/EN61000-3-3					
	EMC IMMUNITY	BS EN/EN61547	1					
		Parameter	Standard	Test Level/Note				
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact				
		Radiated	BS EN/EN61000-4-3	Level 3				
		EFT/Burst	BS EN/EN61000-4-4	Level 3				
		Surge	BS EN/EN61000-4-5	4KV/Line-Line 6KV/Line-Earth				
		Conducted	BS EN/EN61000-4-6	Level 3				
		Magnetic Field	BS EN/EN61000-4-8	Level 4				
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods				
	+	3404.7K hrs min. Telcordia SR-332 (Bellcore)	; 276.3Khrs min. MIL-HDBK-217F (25	°C)				
	MTBF							
THERS	MTBF DIMENSION	, ,						
THERS		140*63*32mm (L*W*H) 0.58Kg;24pcs /15Kg /0.85CUFT						

- 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

- 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. XLG-751 series without UL/CSA certificate.

 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.

 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

 9. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C 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°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

 12. Products sourced from the Americas regions may not have the PSE/CCC/BIS/KC logo. Please contact your MEAN WELL sales for more information.

 13. To fulfill 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

 15. If you need the NOM (Mexico) certificate, Please contact MEAN WELL sales representative for details.

 16. For A/AB type need to consider build in using to comply with Type HL application.

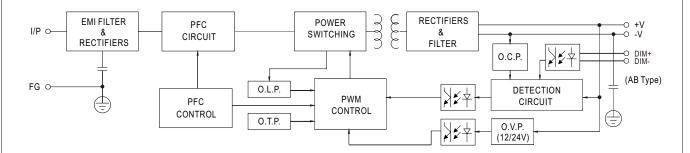
- For A/AB type need to consider build in using to comply with Type HL application.

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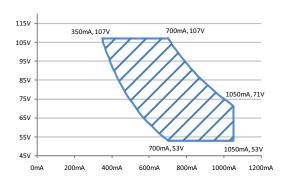
■ BLOCK DIAGRAM

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

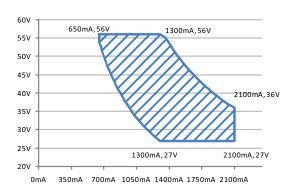


■ DRIVING METHODS OF LED MODULE

% I-V Operating Area



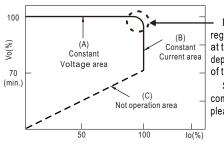
Recommend Performance Region



Recommend Performance 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, except for CV-type.



 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 (%)

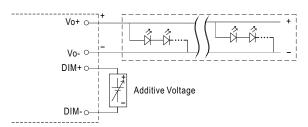


■ DIMMING OPERATION

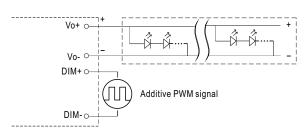


※ 3 in 1 dimming function (for AB-Type)

- 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 μ A (typ.)

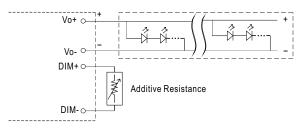


"DO NOT connect "DIM- to Vo-"

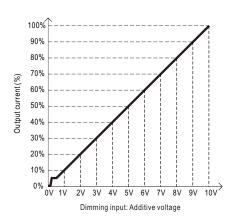


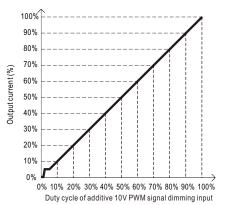
"DO NOT connect "DIM- to Vo-"

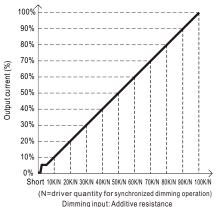
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





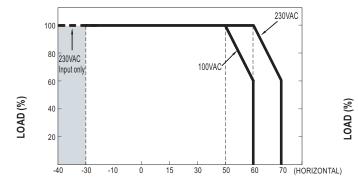


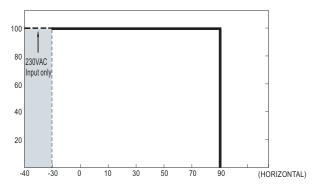
Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

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





Tcase (°C)

AMBIENT TEMPERATURE, Ta (°C)

If XLG-75 operates in Constant Current mode with the rated current the maximum workable Ta is 60° C (Typ. 230VAC) or 50° C (Typ. 100VAC). Below 110VAC@-30°C may has restart situation within 5s after power-on.

■ STATIC CHARACTERISTIC

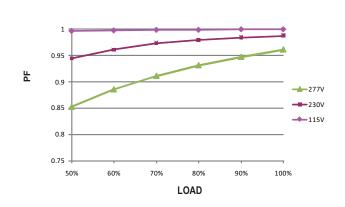
100 90 80 70 60 50 40 100 110 140 160 180 200 220 240 260 280 305 INPUT VOLTAGE (V) 60Hz

■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75°

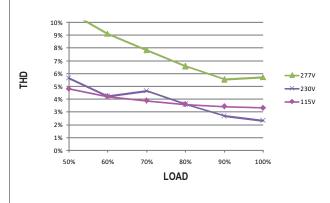
C

Constant Current Mode



■ TOTAL HARMONIC DISTORTION (THD)

※ XLG-75-L Model, Tcase at 75°C

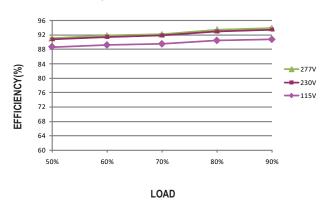


■ EFFICIENCY vs LOAD

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

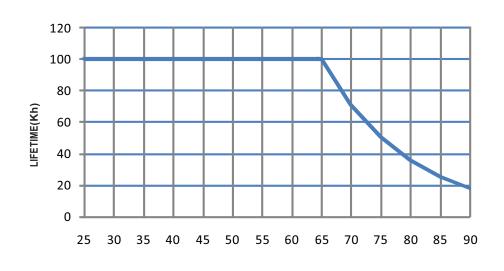
※ XLG-75-L Model, Tcase at 75

°C



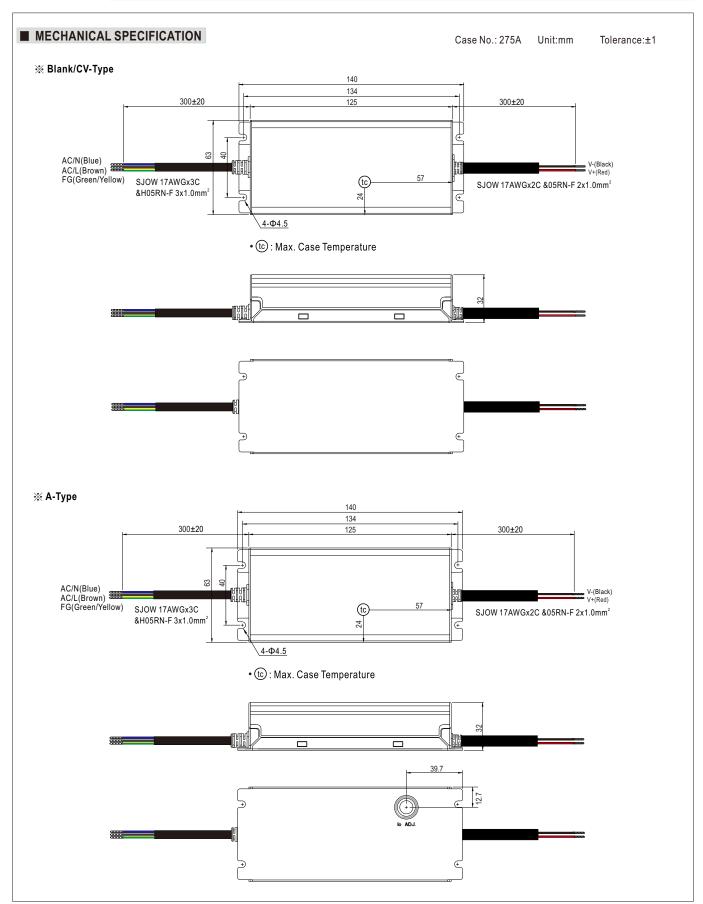


■ LIFE TIME



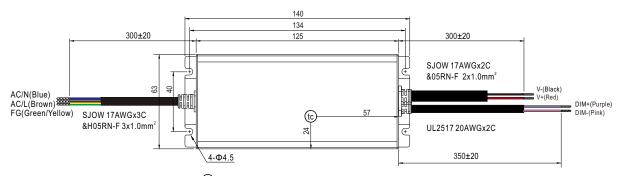
Tcase ($^{\circ}\!\mathbb{C}$)



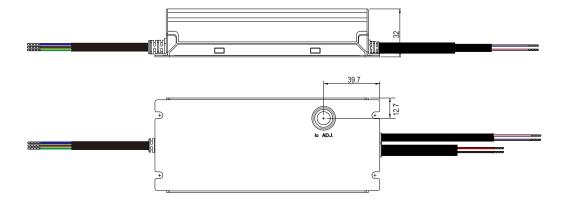




※ AB-Type



• (tc): Max. Case Temperature



■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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