







Applications

GTIN CODE

LED street lighting

LED bay lighting

LED floodlighting

LED architectural lighting

• Type "HL" for use in Class I, Division 2

hazardous (Classified) location.

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

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 function (Dim to off and Isolation design)
- Typical lifetime>50000 hours
- 5 years warranty

Description

XLG-50 series is a 50W AC/DC LED driver featuring the constant power mode output. XLG-50 operates from 90~305VAC. Thanks to the high efficiency up to 90%, The entire series is able to operate between -40°C ~90°C wide case temperature range with 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.XLG-50 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	
XLG - 50 🛛 - A	
	 Function mode option I: for India version(by request with Input over voltage protection) For standard version
	—— Rated wattage
	Series name

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

Note:India version needs MOQ for production, please consult MEANWELL for detail



File Name:XLG-50-SPEC 2025-02-21

SPECIFICATION

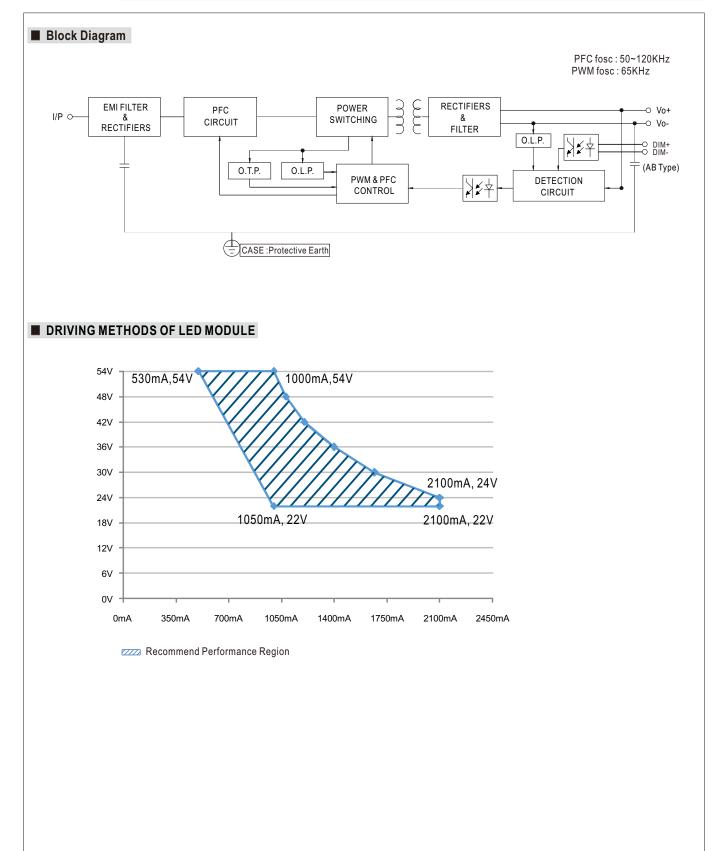
OUTPUT	RATED CURRENT (Default) CONSTANT CURRENT REGION Note.2 RATED POWER CURRENT RIPPLE OPEN CIRCUIT VOLTAGE (max.) CURRENT ADJ. RANGE SETUP, RISE TIME Note.3 VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.10 AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A	XLG-50 - 1A 22 ~54V 100VAC ~ 305VAC 50W 50W 50% 5.0% max. @rated current 57V 0.53 ~ 2.1A 500ms, 100ms/115VAC, 230VAC 90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" see 47 ~ 63Hz PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92 (Please refer to "POWER FACTOR (PF) CHARAC THD<10%(@load≥50%/115VC,230VAC; @loa (Please refer to "TOTAL HARMONIC DISTORT 90% 0.57A/115VAC 0.29A/230VAC 0.24A/277	/277VAC@full load TERISTIC" section) ad≧75%/277VAC)				
	RATED POWER CURRENT RIPPLE OPEN CIRCUIT VOLTAGE (max.) CURRENT ADJ. RANGE SETUP, RISE TIME Note.3 VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.10 AC CURRENT INRUSH CURRENT(Typ.)	100VAC ~ 305VAC 50W 5.0% max. @rated current 57V 0.53 ~ 2.1A 500ms, 100ms/115VAC, 230VAC 90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" se 47 ~ 63Hz PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.92 (Please refer to "POWER FACTOR (PF) CHARAC THD < 10% (@load≥50%/115VC,230VAC; @loa 90%	/277VAC@full load TERISTIC" section) ad≧75%/277VAC)				
	CURRENT RIPPLE OPEN CIRCUIT VOLTAGE (max.) CURRENT ADJ. RANGE SETUP, RISE TIME Note.3 VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.10 AC CURRENT INRUSH CURRENT(Typ.)	50W 5.0% max. @rated current 57V 0.53 ~ 2.1A 500ms, 100ms/115VAC, 230VAC 90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" se 47 ~ 63Hz PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.92 (Please refer to "POWER FACTOR (PF) CHARAC THD 10% (@load≥50%/115VC,230VAC; @loa 90%	/277VAC@full load TERISTIC" section) ad≧75%/277VAC)				
INPUT	CURRENT RIPPLE OPEN CIRCUIT VOLTAGE (max.) CURRENT ADJ. RANGE SETUP, RISE TIME Note.3 VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.10 AC CURRENT INRUSH CURRENT(Typ.)	5.0% max. @rated current 57V 0.53 ~ 2.1A 500ms, 100ms/115VAC, 230VAC 90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" se 47 ~ 63Hz PF \ge 0.97/115VAC, PF \ge 0.95/230VAC, PF \ge 0.92 (Please refer to "POWER FACTOR (PF) CHARAC THD < 10% (@load \ge 50%/115VC, 230VAC; @loa (Please refer to "TOTAL HARMONIC DISTORT 90%	/277VAC@full load TERISTIC" section) ad≧75%/277VAC)				
INPUT	OPEN CIRCUIT VOLTAGE (max.) CURRENT ADJ. RANGE SETUP, RISE TIME Note.3 VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.10 AC CURRENT INRUSH CURRENT(Typ.)	57V 0.53 ~ 2.1A 500ms, 100ms/115VAC, 230VAC 90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" se 47 ~ 63Hz PF \ge 0.97/115VAC, PF \ge 0.95/230VAC, PF \ge 0.92 (Please refer to "POWER FACTOR (PF) CHARAC THDC 10%(@load \ge 50%/115VC,230VAC; @loa (Please refer to "TOTAL HARMONIC DISTORT 90%	/277VAC@full load TERISTIC" section) ad≧75%/277VAC)				
INPUT	CURRENT ADJ. RANGE SETUP, RISE TIME Note.3 VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.10 AC CURRENT INRUSH CURRENT(Typ.)	$\begin{array}{c} 0.53 \sim 2.1 A \\ \hline 500ms, 100ms/115VAC, 230VAC \\ 90 \sim 305VAC & 127 \sim 431VDC \\ (Please refer to "STATIC CHARACTERISTIC" se \\ 47 \sim 63Hz \\ PF \geq 0.97/115VAC, PF \geq 0.95/230VAC, PF \geq 0.92 \\ (Please refer to "POWER FACTOR (PF) CHARAC \\ THD < 10\% (@load \geq 50\%/115VC, 230VAC; @loa \\ (Please refer to "TOTAL HARMONIC DISTORT \\ 90\% \end{array}$	/277VAC@full load TERISTIC" section) ad≧75%/277VAC)				
INPUT	SETUP, RISE TIME Note.3 VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.10 AC CURRENT INRUSH CURRENT(Typ.)	$\begin{array}{l} 500\text{ms}, 100\text{ms}/115\text{VAC}, 230\text{VAC}\\ 90 \sim 305\text{VAC} & 127 \sim 431\text{VDC}\\ (Please refer to "STATIC CHARACTERISTIC" see\\ 47 \sim 63\text{Hz}\\ PF \geq 0.97/115\text{VAC}, PF \geq 0.95/230\text{VAC}, PF \geq 0.92\\ (Please refer to "POWER FACTOR (PF) CHARAC\\ THD < 10\% (@load \geq 50\%/115\text{VC}, 230\text{VAC}; @loa\\ (Please refer to "TOTAL HARMONIC DISTORT\\ 90\% \end{array}$	/277VAC@full load TERISTIC" section) ad≧75%/277VAC)				
INPUT	VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.10 AC CURRENT INRUSH CURRENT(Typ.)	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" se 47 ~ 63Hz PF \geq 0.97/115VAC, PF \geq 0.95/230VAC, PF \geq 0.92 (Please refer to "POWER FACTOR (PF) CHARAC THD < 10%(@load \geq 50%/115VC,230VAC; @loa (Please refer to "TOTAL HARMONIC DISTORT 90%	/277VAC@full load TERISTIC" section) ad≧75%/277VAC)				
INPUT	FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.10 AC CURRENT INRUSH CURRENT(Typ.)	$ \begin{array}{l} (Please refer to "STATIC CHARACTERISTIC" see \\ 47 \sim 63Hz \\ PF \geq 0.97/115VAC, PF \geq 0.95/230VAC, PF \geq 0.92 \\ (Please refer to "POWER FACTOR (PF) CHARAC \\ THD < 10\% (@load \geq 50\% / 115VC, 230VAC; @loa \\ (Please refer to "TOTAL HARMONIC DISTORT \\ 90\% \\ \end{array} $	/277VAC@full load TERISTIC" section) ad≧75%/277VAC)				
INPUT	POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.10 AC CURRENT INRUSH CURRENT(Typ.)	$\label{eq:pressure} \begin{array}{l} PF{\geq0.97/115}VAC, PF{\geq0.95/230VAC}, PF{\geq0.92} \\ (Please refer to "POWER FACTOR (PF) CHARAC \\ THD{$<$10\%(@load{\geq0\%/115VC,230VAC; @loa} \\ (Please refer to "TOTAL HARMONIC DISTORT \\ 90\% \end{array}$	TERISTIC [®] section) ad≧75%/277VAC)				
INPUT	TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.10 AC CURRENT INRUSH CURRENT(Typ.)	(Please refer to "POWER FACTOR (PF) CHARAC THD< 10%(@load≧50%/115VC,230VAC; @loa (Please refer to "TOTAL HARMONIC DISTORT 90%	TERISTIC [®] section) ad≧75%/277VAC)				
INPUT	TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.10 AC CURRENT INRUSH CURRENT(Typ.)	THD< 10%(@load≧50%/115VC,230VAC; @loa (Please refer to *TOTAL HARMONIC DISTORT 90%	ad≧75%/277VAC)				
INPUT	EFFICIENCY (Typ.) Note.10 AC CURRENT INRUSH CURRENT(Typ.)	(Please refer to "TOTAL HARMONIC DISTORT 90%					
INPUT	AC CURRENT INRUSH CURRENT(Typ.)	90%	ION(IHD) section)				
INPUT	AC CURRENT INRUSH CURRENT(Typ.)						
	INRUSH CURRENT(Typ.)	0.57A7115VAC 0.29A7230VAC 0.24A/277					
		0.5/A/115VAC 0.29A/230VAC 0.24A/27/VAC COLD START 50A(twidth=350us measured at 50% lpeak) at 230VAC; Per NEMA 410					
	INCLUSION OF REALE ON 16A	COLD START SUA(twidth-SSous measured at 50% ipeak) at 250VAC; Per NEWA 410					
	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	No load power consumption <0.5W for A, <0.75W for I series					
	POWER CONSUMPTION	Standby power consumption <0.5W for AB-Type(Dimming OFF)					
	OVER POWER	110-150% Over Power Protection, recovers automatically after fault condition is removed					
PROTECTION	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed					
	OVER TEMPERATURE	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, recovers automatically after fault condition is removed)					
	WORKING TEMP.	Can survive input voltage stress of 440Vac for 48 hours Tcase=-40 ~ +90°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+90°C					
	WORKING HUMIDITY	20 ~ 95%					
	STORAGE TEMP.	-40 ~ +80°C					
ENVIRONMENT	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.8	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC AS/NZS IEC BS EN/EN61347-1, AS/NZS BS EN/EN61347-2-13 independent, BS EN/EN62384; IP67; 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-50I type only); NOM-058-SCFI-2017 approved					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC					
EMC	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/T 17743				
			BS EN/EN61000-3-3				
			Standard	Test Level/Note			
				Level 3, 8KV air ; Level 2, 4KV contact			
		Radiated	BS EN/EN61000-4-3	Level 3			
	EMC IMMUNITY	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			
	MTBF	Voltage Dips and Interruptions	BS EN/EN61000-4-11	Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods			
OTHERS	MTBF DIMENSION			>95% dip 0.5 periods, 30% dip 25 periods,			
OTHERS		EFT/Burst Surge	BS EN/EN61000-4-4 BS EN/EN61000-4-5	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV (Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth Level 3			

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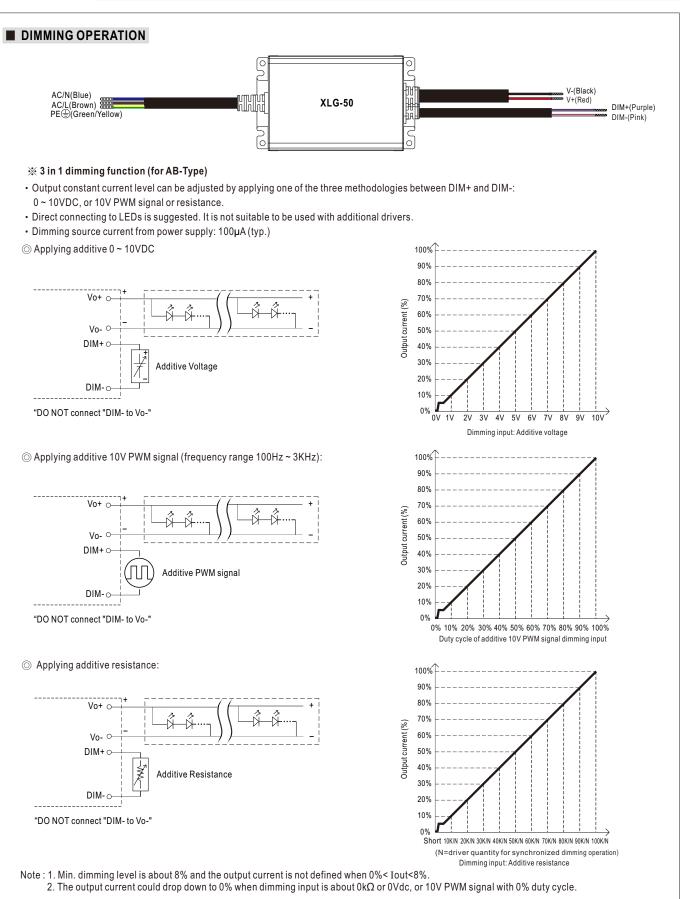


50W Constant Power Mode LED Driver

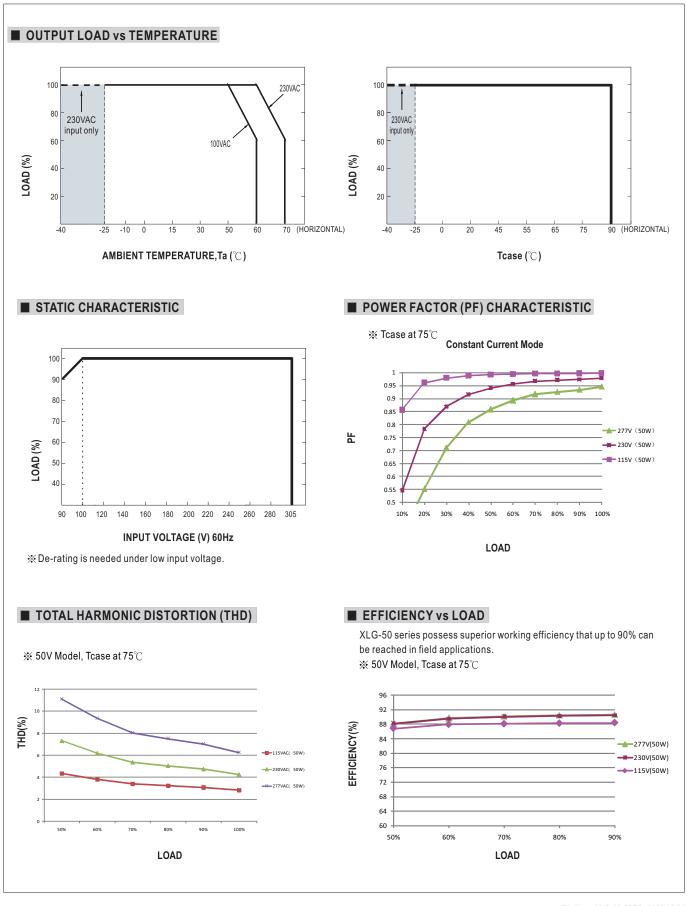
XLG-50 series









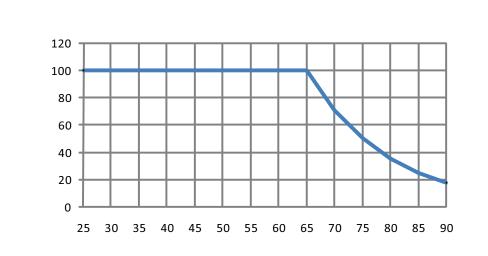


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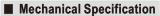
■ LIFE TIME

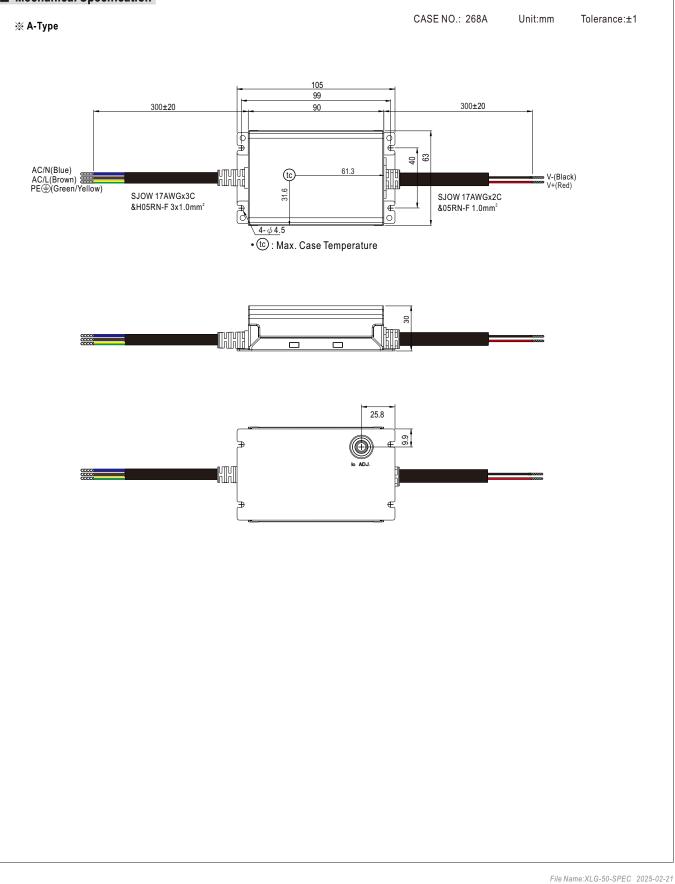
LIFETIME(Kh)



Tcase (°C)









АВ-Туре

