



IEC61885(Part 2/Sec13)

R-41027766



Note.17

(Except for Blank type)



SELV IP67

Except for L/M type



Note.13

■ 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 6KV/4KV (10KV/6KV 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

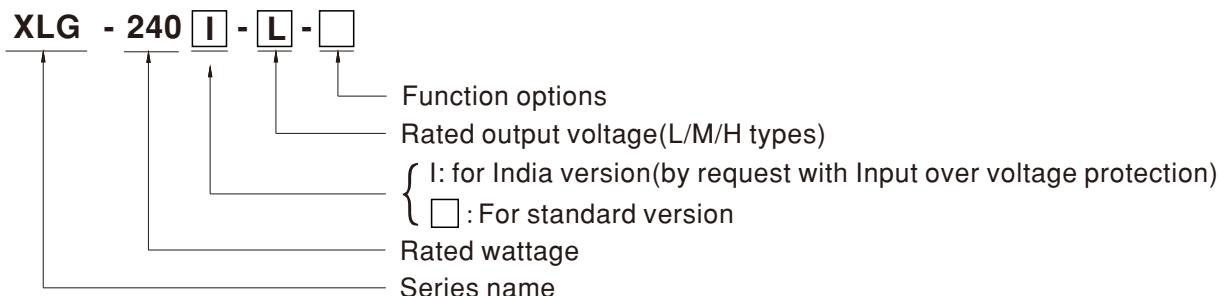
■ Applications

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

■ Description

XLG-240 series is a 240W LED AC/DC driver featuring the constant power mode. XLG-240 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 6.66A. Thanks to the high efficiency up to 93%, 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-240 is designed with the latest version of IEC61347/GB7000.1-2015 and UL8750 international safety regulations. The output and dimming circuit are also completely in accordance with the new regulations with isolation to ensure the user and luminaire system safety during installation.

■ Model Encoding



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

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

SPECIFICATION

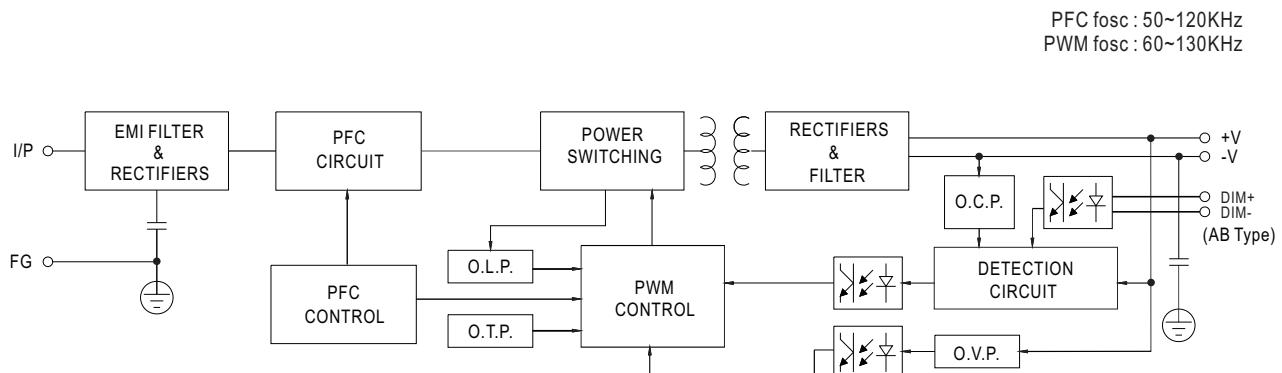
MODEL	XLG-240□-L-□	XLG-240□-M-□	XLG-240□-H-□
OUTPUT	RATED CURRENT 700mA	1400mA	4900mA
	RATED POWER 239.4W	239.4W	239.6W
	CONSTANT CURRENT REGION Note.2 178~342V	90~171V	27~56V
	FULL POWER CURRENT RANGE 700~1050mA	1400~2100mA	4280~6660mA
	OPEN CIRCUIT VOLTAGE (max.) 370V	186V	60V
	Adjustable for A/AB-Type only (via the built-in potentiometer)		
	350~1050mA	700~2100mA	2400~6660mA
	CURRENT RIPPLE 5.0%(@ Load $\geq 50\%$ rated voltage)		
	CURRENT TOLERANCE $\pm 4\%$		
INPUT	SET UP TIME Note.6 500ms/230VAC, 1200ms/115VAC		
	VOLTAGE RANGE Note.5 100~305VAC 142~431VDC (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 $\geq 50\%$ at 115VAC/230VAC, @load $\geq 75\%$ at 277VAC) Please refer to "TOTAL HARMONIC DISTORTION (THD)" section		
	EFFICIENCY (Typ.) 93%	92.5%	91%
	AC CURRENT (Typ.) 2.7A / 115VAC 1.3A / 230VAC 1.1A / 277VAC		
	INRUSH CURRENT(Typ.) COLD START 85A(twidth=500 μ s measured at 50% I _{peak}) at 230VAC; Per NEMA 410		
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER 2 unit(circuit breaker of type B) / 4 units(circuit breaker of type C) at 230VAC		
PROTECTION	LEAKAGE CURRENT <0.75mA / 277VAC		
	STANDBY POWER CONSUMPTION Standby power consumption <0.5W for AB-Type(Dimming OFF)(for standard version)		
	SHORT CIRCUIT Hiccup mode or constant current limiting, recovers automatically after fault condition is removed		
	OVER VOLTAGE 380~450V 190~240V 61~85V Shut down output voltage, re-power on to recovery		
ENVIRONMENT	INPUT OVER VOLTAGE Note.7 320~390VAC (Shut down output when the input 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. T _{case} =-40~+90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)		
	MAX. CASE TEMP. T _{case} =+90°C		
	WORKING HUMIDITY 20~95% RH non-condensing		
SAFETY & EMC (Note 8)	STORAGE TEMP., HUMIDITY -40~+80°C, 10~95% RH non-condensing		
	TEMP. COEFFICIENT $\pm 0.03\%/\text{C}$ (0~60°C)		
	VIBRATION 10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
	SAFETY STANDARDS 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); 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 IMMUNITY	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 $\geq 50\%$
	Voltage Flicker	BS EN/EN61000-3-3	-----
	BS EN/EN61547		
	Parameter	Standard	Test Level / Note
	ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact
OTHERS	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
	MTBF	830.77K hrs min. Telcordia SR-332(Bellcore) ; 219.75K hrs min. MIL-HDBK-217F (25°C)	
DIMENSION	219*63*35.5mm (L*W*H)		
	PACKING 1Kg;16pcs / 16Kg / 0.77CUFT		
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C 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.If continually operate with AC on/off in short time , it may causes PWM driver IC into protection status. 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-240 I series, and I 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. 9. This series meets the typical life expectancy of >50,000 hours of operation when T _{case} , particularly (tc) 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. 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. 12. 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). 13. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC 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. When the current adjustment is more than 110% of the rated current, it will be enter the Protection state. 16. It may has an over-shoot status at output current when AC On/Off operate with lower Vf and lower loading conditions. 17. If you need the NOM (Mexico) certificate, Please contact MEAN WELL sales representative for details. 18. Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx		



240W Constant Power Mode LED Driver

XLG-240 series

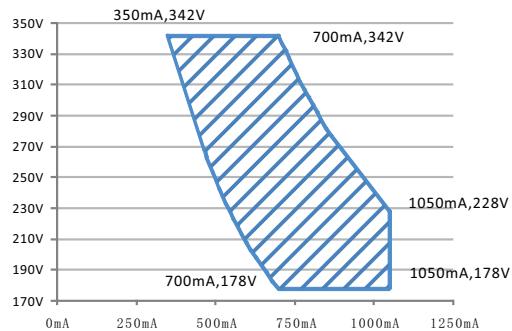
■ BLOCK DIAGRAM



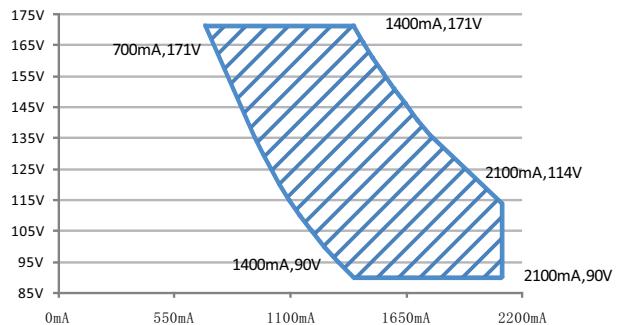
■ DRIVING METHODS OF LED MODULE

※ I-V Operating Area

◎ XLG-240-L

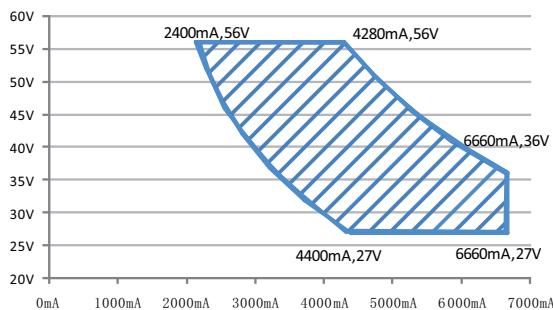


◎ XLG-240-M



■ Recommend Performance Region

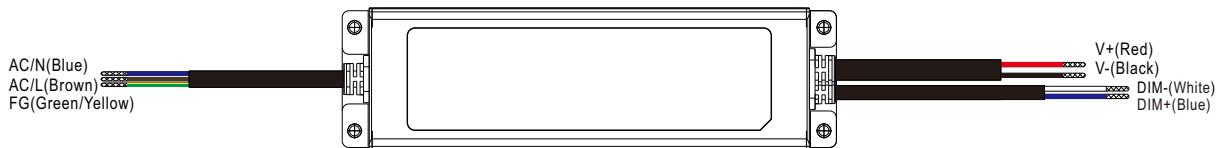
◎ XLG-240-H



■ Recommend Performance Region

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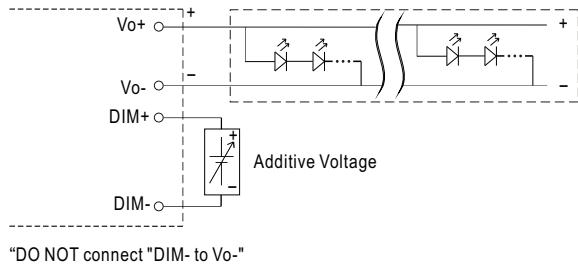
■ DIMMING OPERATION



※ 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: $100 \mu\text{A}$ (typ.)

◎ Applying additive 0 ~ 10VDC

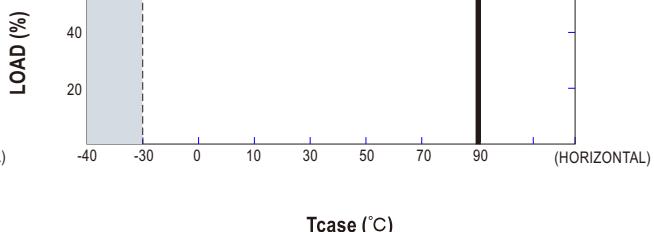
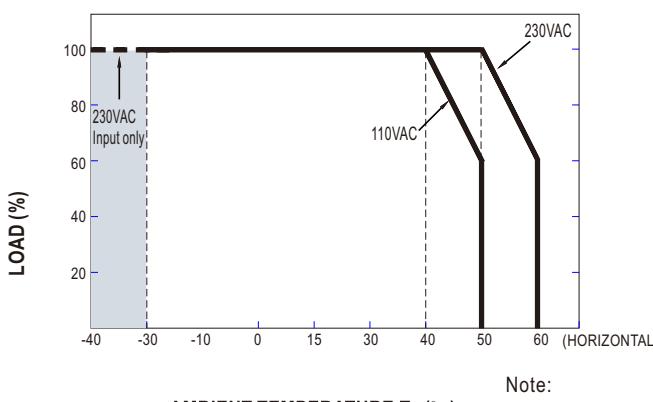




240W Constant Power Mode LED Driver

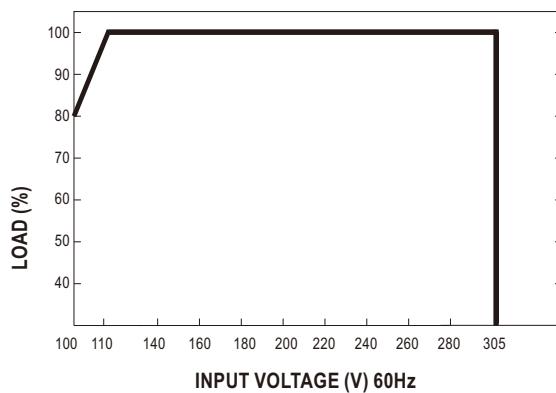
XLG-240 series

■ OUTPUT LOAD vs TEMPERATURE

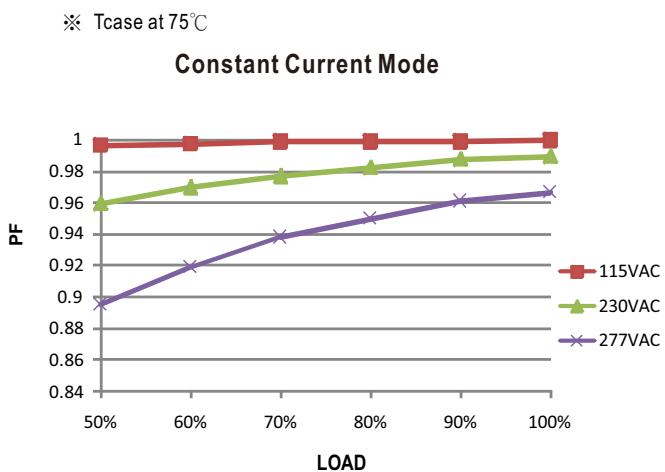


Note:
1. If XLG-240 operates in Constant Power mode with the rated current the maximum workable T_a is 50°C (Typ. 230VAC) or 40°C (Typ. 110VAC)
2. It may has a soft-start status when operation at -30°C full load and 110VAC input condition.

■ STATIC CHARACTERISTIC

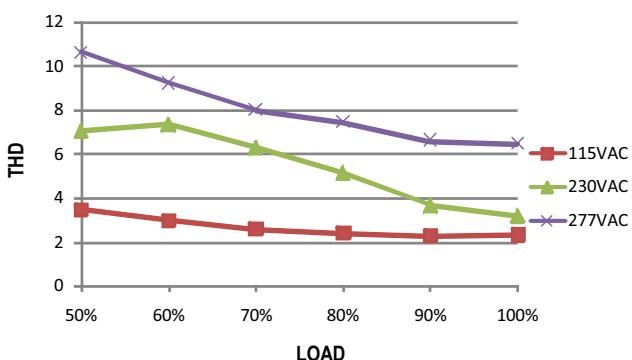


■ POWER FACTOR (PF) CHARACTERISTIC



■ TOTAL HARMONIC DISTORTION (THD)

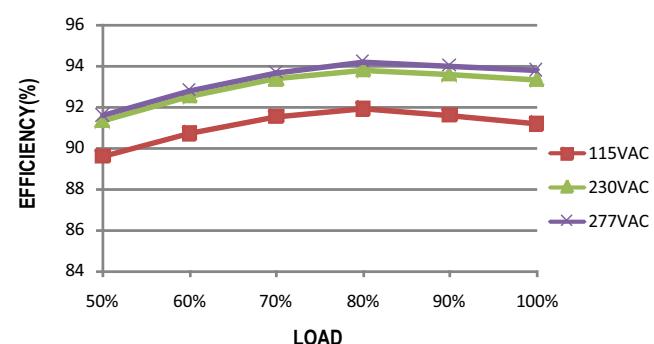
※ XLG-240-L Model, T_{case} at 75°C

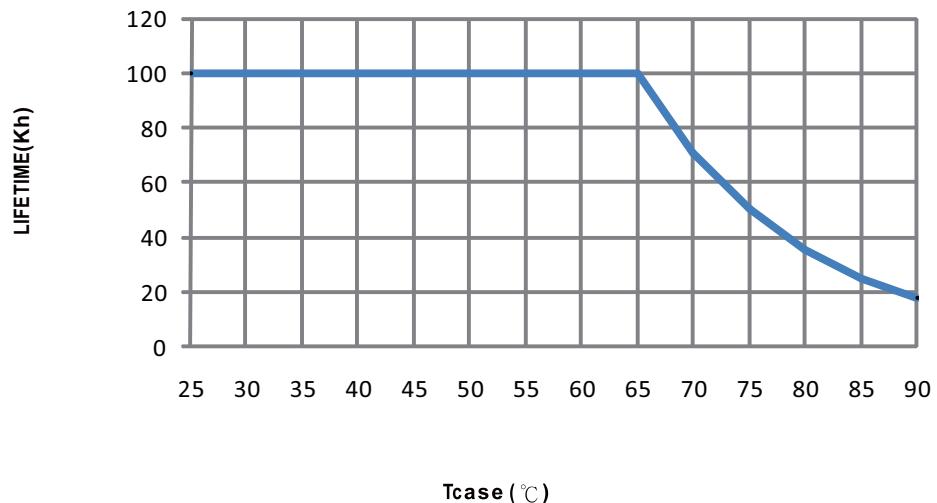


■ EFFICIENCY vs LOAD

XLG-240 series possess superior working efficiency that up to 93% can be reached in field applications.

※ XLG-240-L Model, T_{case} at 75°C



■ LIFE TIME



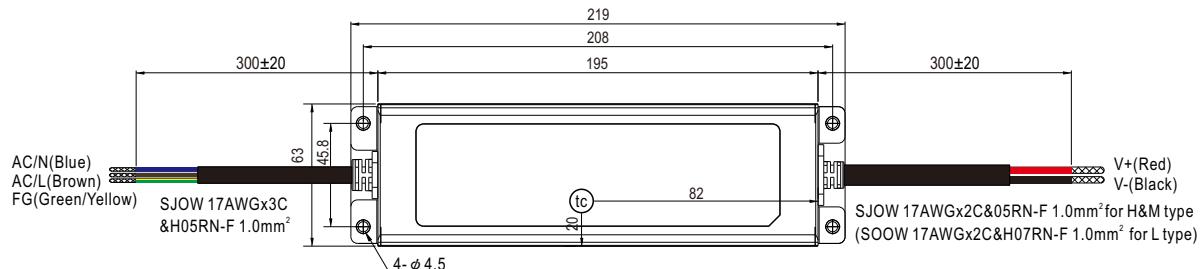
240W Constant Power Mode LED Driver

XLG-240 series

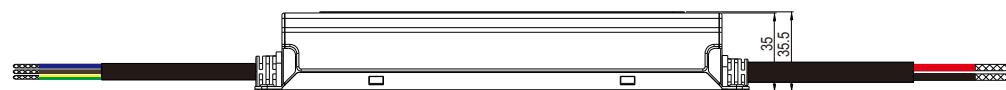
■ MECHANICAL SPECIFICATION

Case No.:237 Unit:mm

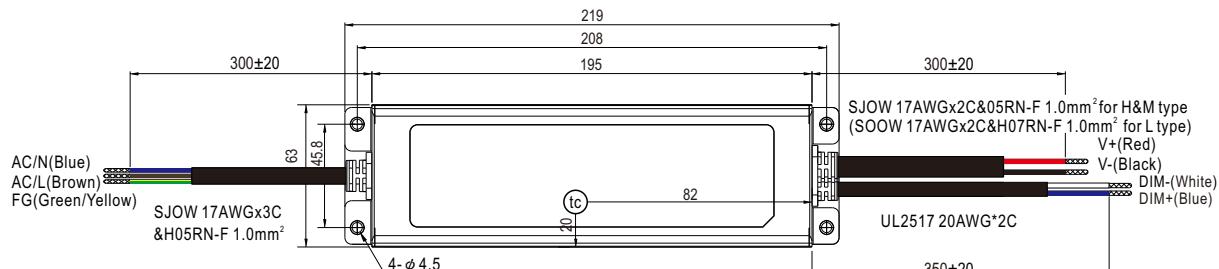
※ A-Type



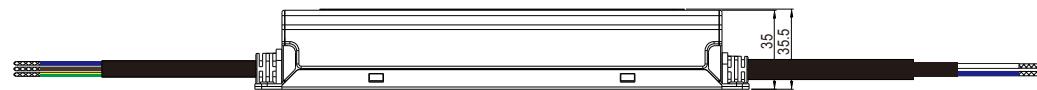
• (tc) : Max. Case Temperature



※ AB-Type

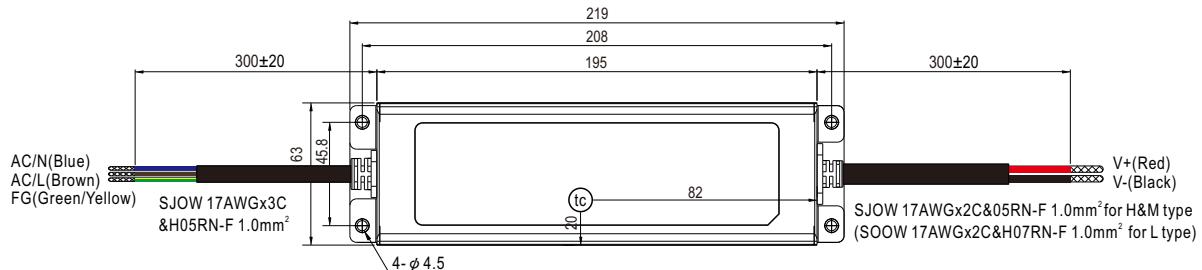


• (tc) : Max. Case Temperature



※ Blank-Type

Case No.:237 Unit:mm


 • t_c : Max. Case Temperature


■ INSTALLATION MANUAL

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