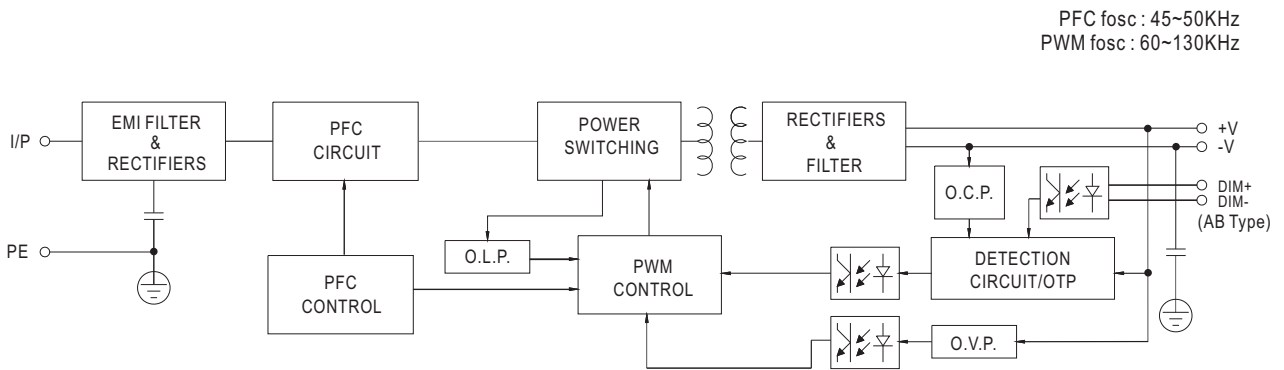


SPECIFICATION

MODEL		XBG-100- -			
OUTPUT	DEFAULT CURRENT	2100mA			
	RATED POWER	100W			
	CONSTANT CURRENT REGION	27 ~ 56V			
	FULL POWER CURRENT RANGE	1750~2780mA			
	OPEN CIRCUIT VOLTAGE (max.)	60V			
	CURRENT ADJ. RANGE	875~2780mA			
	CURRENT RIPPLE	3.0% max. @rated current			
	CURRENT TOLERANCE	±5%			
SET UP TIME	Note.4	500ms/230VAC, 1200ms/115VAC			
INPUT	VOLTAGE RANGE	Note.2	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" 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%			
	AC CURRENT (Typ.)	1.1A / 115VAC 0.5A / 230VAC 0.42A / 277VAC			
	INRUSH CURRENT(Typ.)	∅OLD START 50A(twidth=400ms measured at 50% Ipeak) 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-Type			
PROTECTION	OVER POWER	105-150% Hiccup mode, recovers automatically after fault condition is removed			
	SHORT CIRCUIT	Constant current limiting or Hiccup mode, recovers automatically after fault condition is removed			
	OVER VOLTAGE	61 ~ 78V Shut down output voltage, re-power on after fault condition is removed to recover			
	OVER TEMPERATURE	Shut down output voltage, re-power on after fault condition is removed to recover			
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+85°C			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	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 & EMC	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; IS15885(Part2/Sec13); GB19510.1,GB19510.14; IP67;EAC TP TC 004 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-PE:2KVAC O/P-PE:1.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-PE, O/P-PE: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	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		
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			
OTHERS	MTBF	2871.3K hrs min. Telcordia SR-332(Bellcore) ;188.8K hrs min. MIL-HDBK-217F (25°C)			
	LIFETIME	Note.5	50000 hrs min.		
	DIMENSION	φ 130mm *56mm(D*H)			
	PACKING	0.8Kg; 16pcs/ 14.8Kg/1.57CUFT			
NOTE	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly tc point (or TMP, per DLC), is about 75°C or less. To fulfill requirements of the latest ErP regulation for lighting fixture, this LED drive can only be used behind a switch without permanently connected to the mains. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 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). Products sourced from the Americas regions may not have the PSE/CCC/BIS/KC logo. Please contact your MEAN WELL sales for more information. 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 				

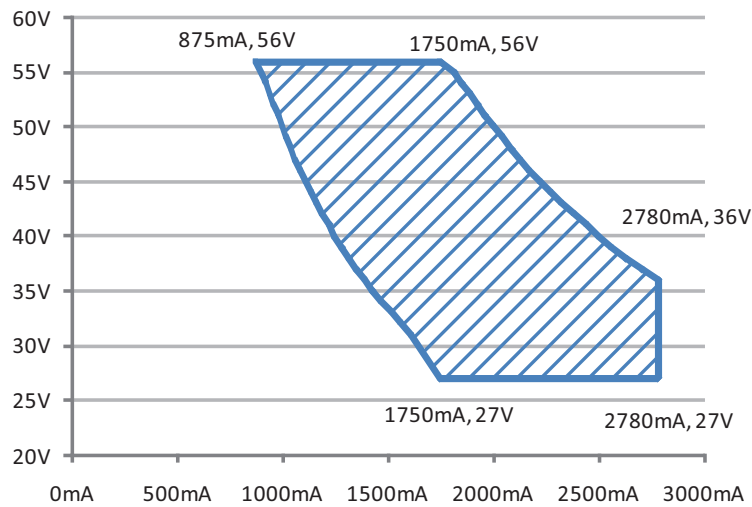
■ BLOCK DIAGRAM



■ DRIVING METHODS OF LED MODULE

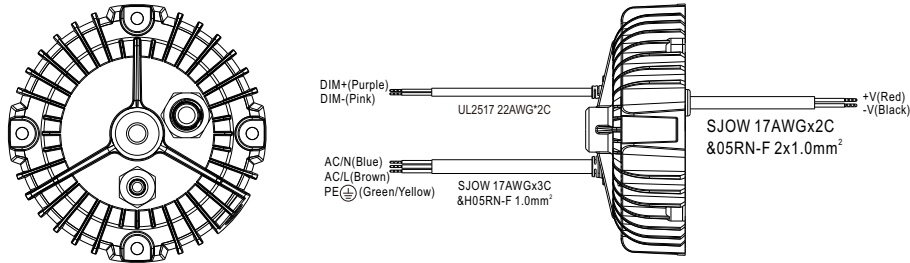
※ I-V Operating Area

© XBG-100



High Performance Region

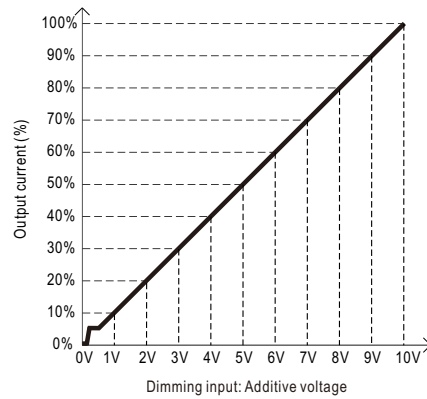
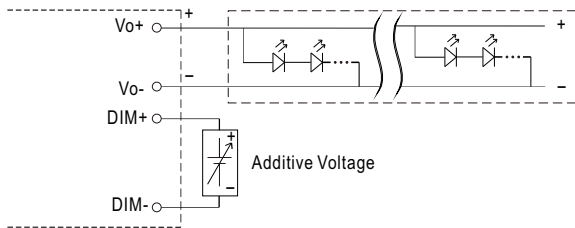
■ DIMMING OPERATION



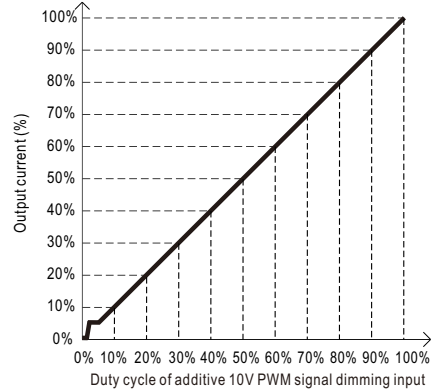
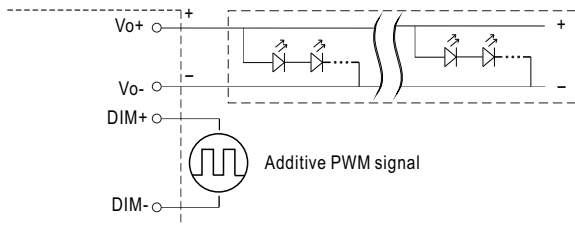
※ **3 in 1 dimming function (for AB-Type)**

- 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: 100μA (typ.)

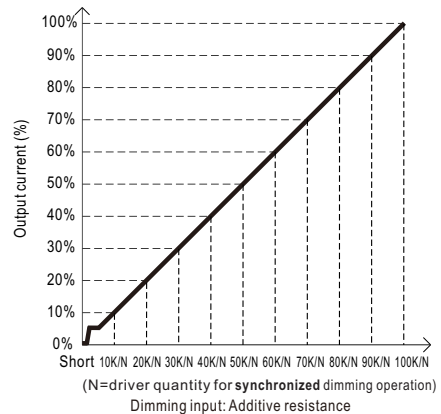
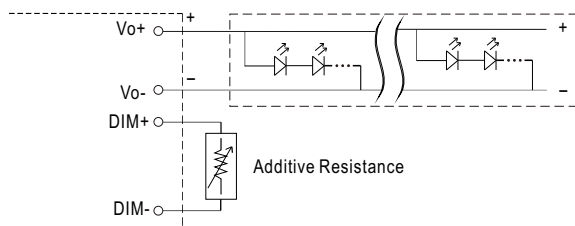
◎ Applying additive 0 ~ 10VDC



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

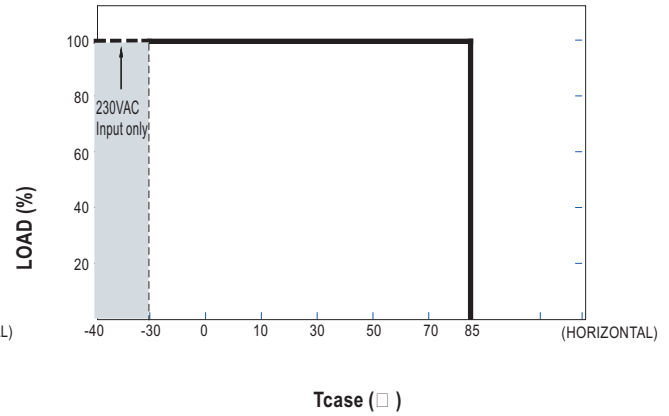
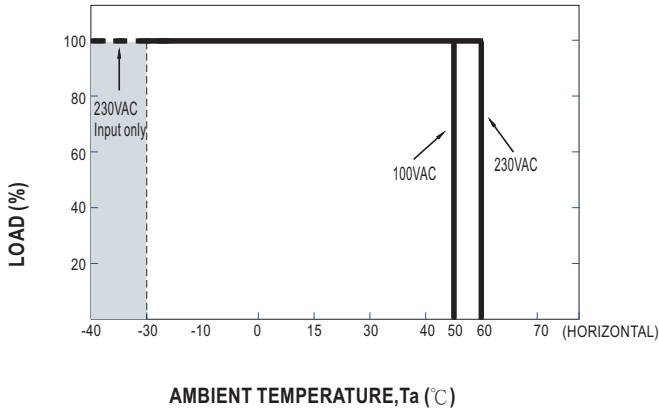


◎ Applying additive resistance:

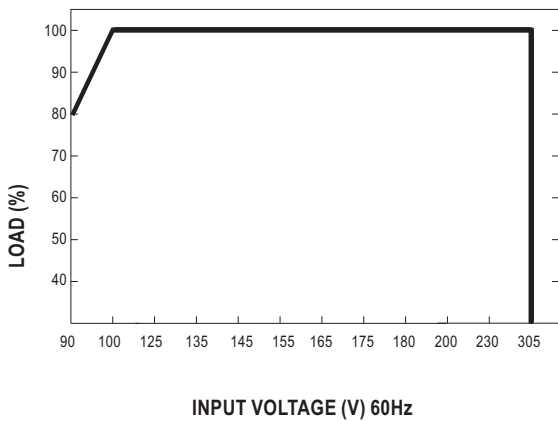


Note : 1. Min. dimming level is about 8% and the output current is not defined when 0% < I_{out} < 8%.
 2. The output current could drop down to 0% when dimming input is about 0Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.

OUTPUT LOAD vs TEMPERATURE

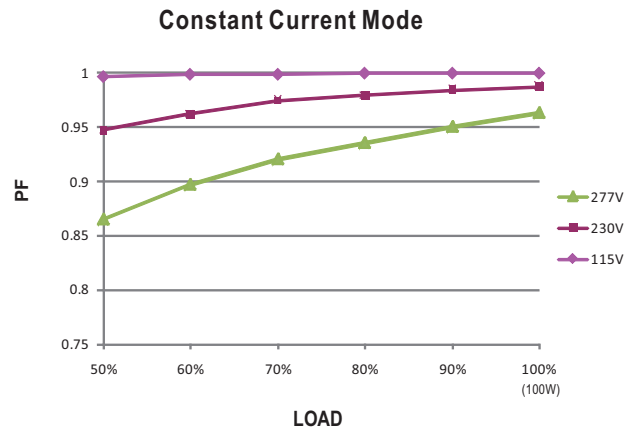


STATIC CHARACTERISTIC



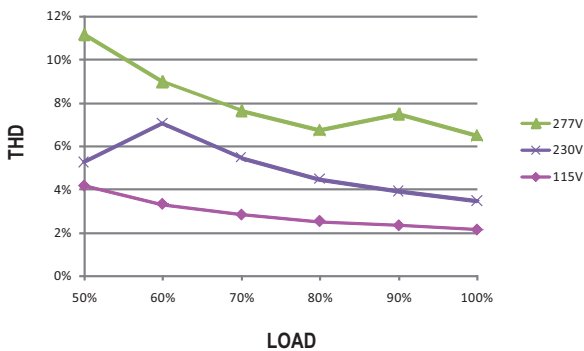
POWER FACTOR (PF) CHARACTERISTIC

※ T_{case} at 65°C



TOTAL HARMONIC DISTORTION (THD)

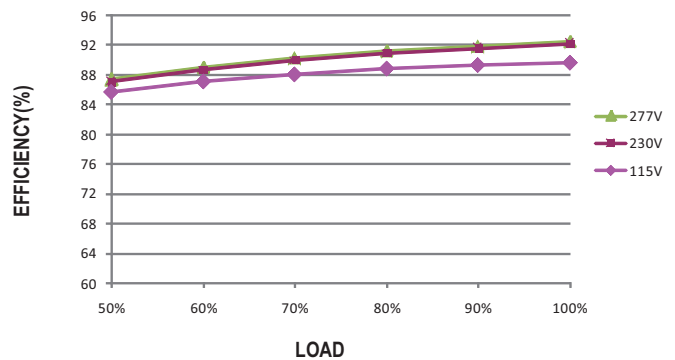
※ 1750mA Model, T_{case} at 65°C



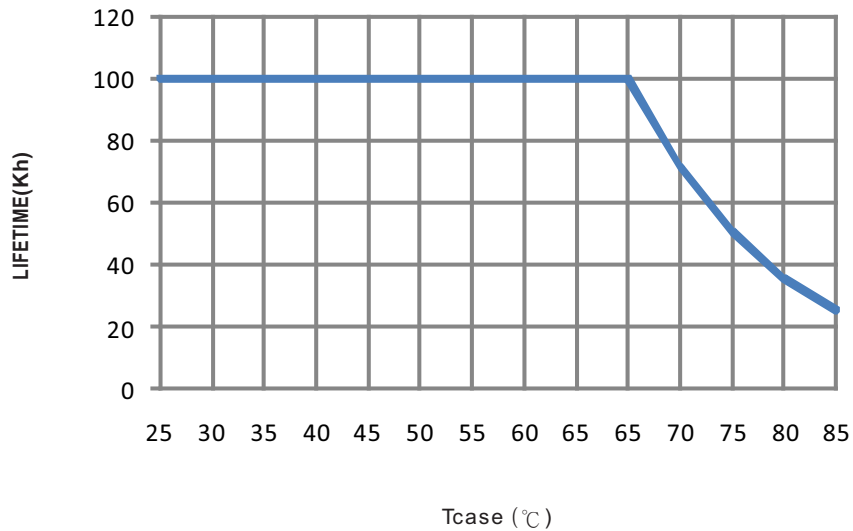
EFFICIENCY vs LOAD

XBG-100 series possess superior working efficiency that up to 92% can be reached in field applications.

※ 1750mA Model, T_{case} at 65°C



■ LIFE TIME



■ INSTALLATIONS



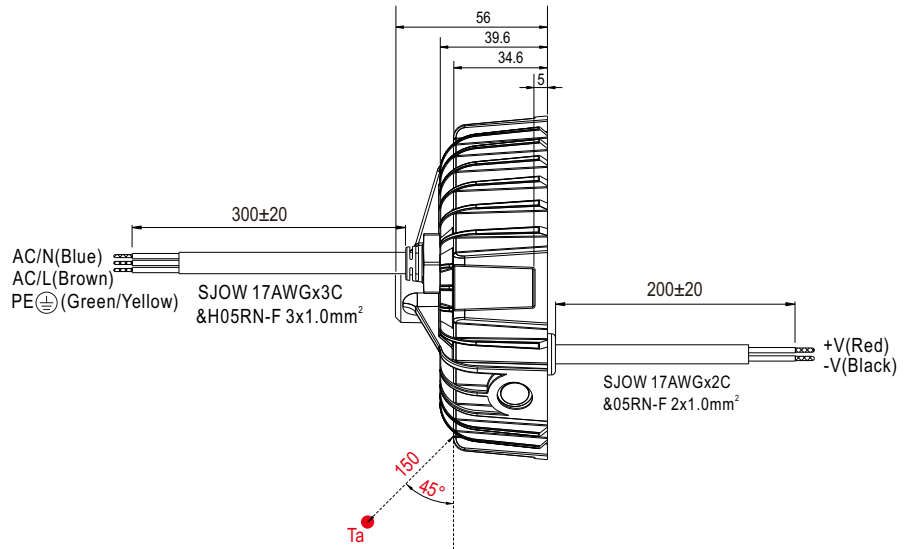
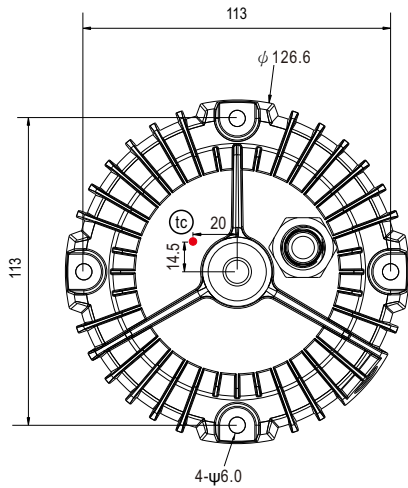
Caution

- Please inspect the appearance of the driver if the package is damaged. There should not be any cracks.
- Please do not drop or bump the driver.
- All screws including the suspension screw should be paired with a spring washer and locked tight.
- The entire luminaire, including the driver, should be limited to 10Kg or less.
- The luminaire should be cautiously protected from damage due to shock throughout packaging and transportation.
- Please thoroughly follow the preceding cautionary notes to prevent the luminaire from falling, leading to injuries.

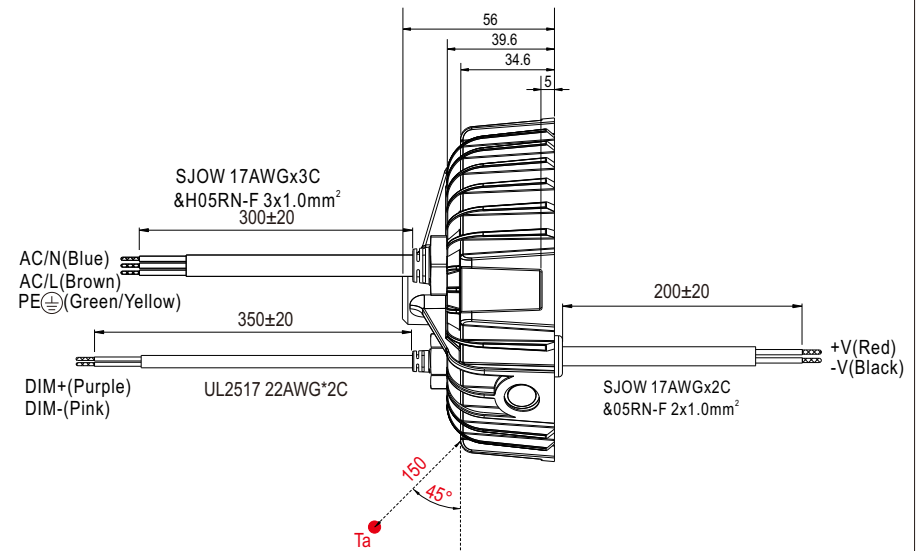
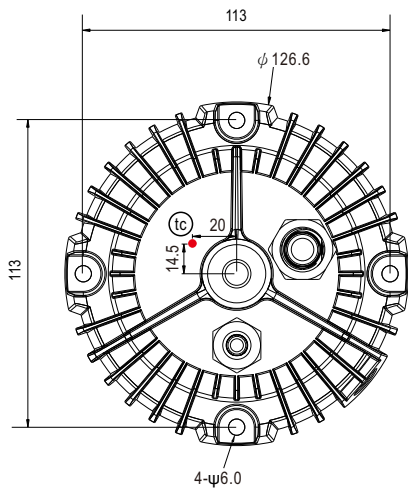
MECHANICAL SPECIFICATION

Case No.280 Unit:mm

※ **A-Type(AC Cable with fixed cable)**

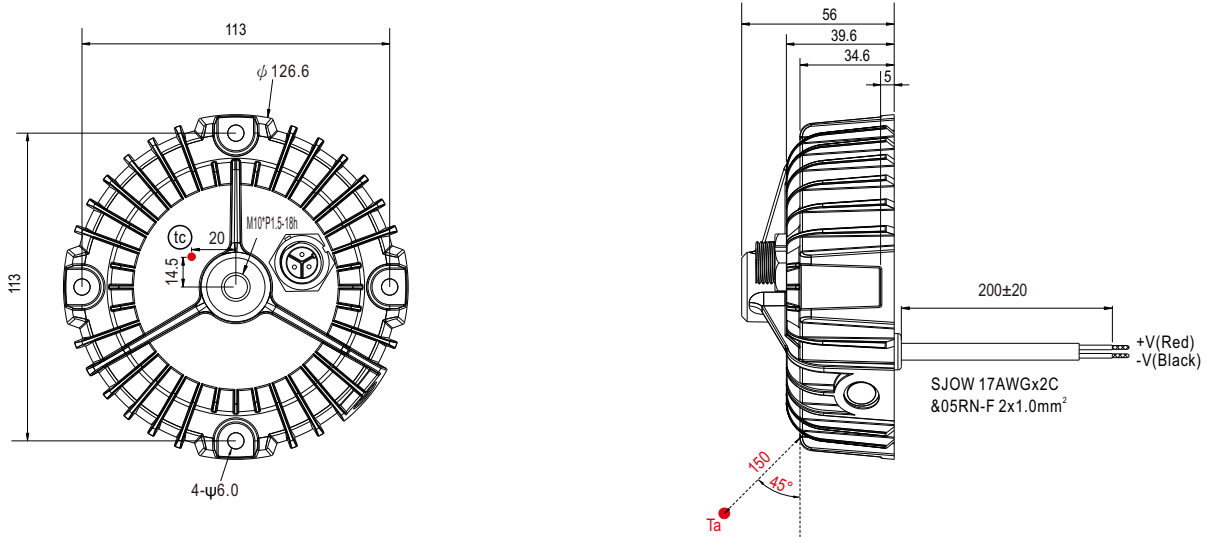


※ **AB-Type(AC Cable with fixed cable)**

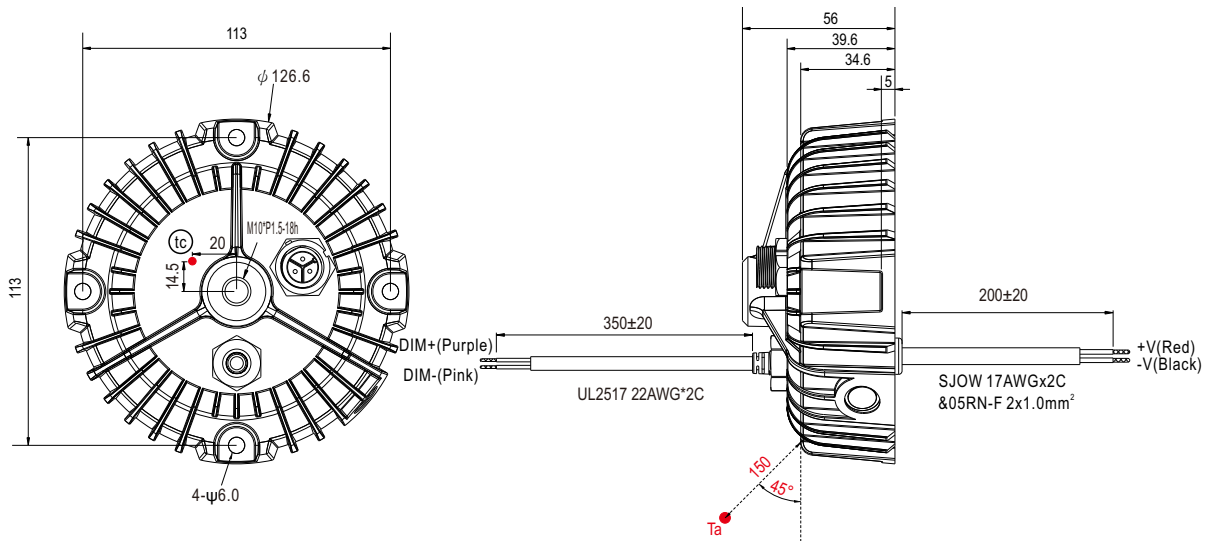


- (tc) : Max. Case Temperature.(case temperature measured point)
- Ta: Ambient Temperature measured point

※ A-C-Type(AC cable with connector)



※ AB-C-Type(AC cable with connector)



Terminal Pin No. Assignment(CHOGORI 22003515-01)

Pin No.	Assignment	Drawing
1	AC/L	
2	AC/N	
3	PE ⊕	

- (tc) : Max. Case Temperature.(case temperature measured point)
- Ta: Ambient Temperature measured point

AC input cable option

Item	Order part NO.
1M	1FF5XBG-160-IP1
2M	1FF5XBG-160-IP2
3M	1FF5XBG-160-IP3



CHOGORI 22003211-01

■ INSTALLATION MANUAL

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