







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 Voltage + Constant Current 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 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming (dim-to-off); Smart timer dimming; DALI
- Typical lifetime>50000 hours
- 5 years warranty

Description

ELG-100 series is a 100W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-100 operates from 100~360VAC and offers models with different rated voltage ranging between 24V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40° C ~ $+90^{\circ}$ C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. ELG-100 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system

Model Encoding

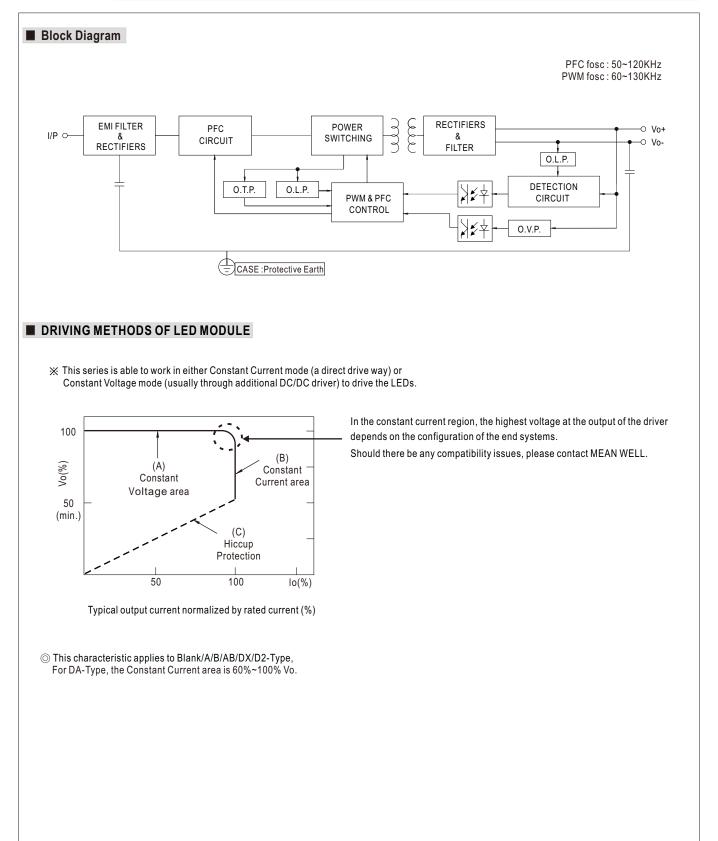
ELG - 100 - 36	A -
	Input wiring type
	Function mode option 3Y:3-wire input for standard model
	——— Rated output voltage(24/36/42/48/54V)
	Rated wattage
	Series name

Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed.	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
DA	IP67	DALI control technology.	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	In Stock

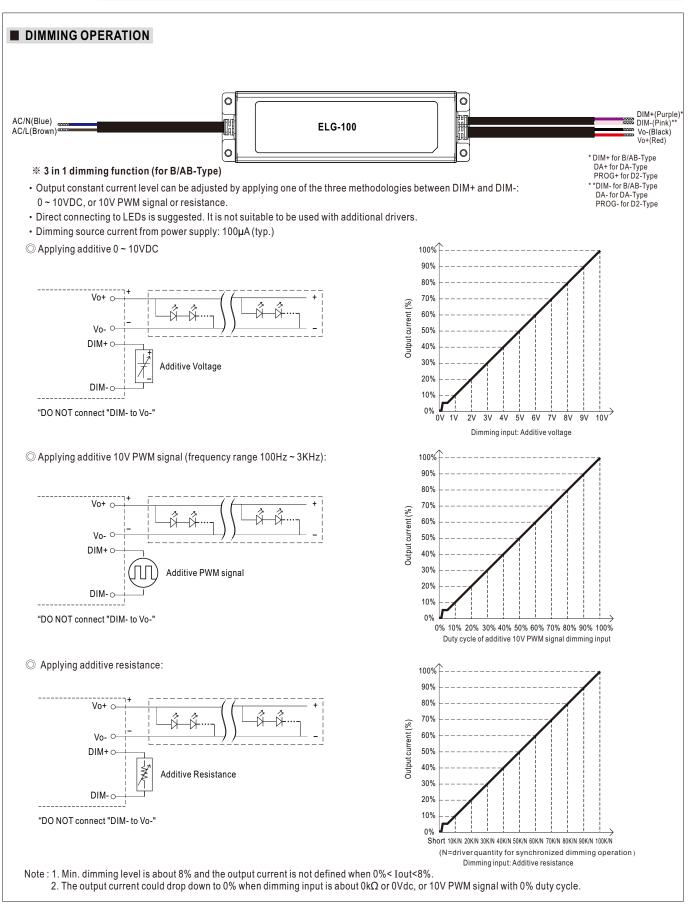


MODEL	ATION	ELG-100-24	ELG-100-36	ELG-100-42	ELG-100-48	ELG-100-54		
	DC VOLTAGE	24V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.		18 ~ 36V	21~42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	4.0A	2.66A	2.28A	2A	1.78A		
		200VAC ~ 305VAC	1					
	RATED POWER	96W	95.76W	95.76W	96W	96.12W		
	NATED TOWER	100VAC ~ 180VAC						
		70W	70W	70W	70W	70W		
		200mVp-p	250mVp-p	250mVp-p	300mVp-p			
	RIPPLE & NOISE (max.) Note.3				30011vp-p	350mVp-p		
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	,				
OUTPUT		21.6 ~ 26.4V	32.4 ~ 39.6V	37.8 ~ 46.2V	43.2 ~ 52.8V	48.6 ~ 59.4V		
UUIPUI		Adjustable for A/AB-Type	only (via the built-in pote	entiometer)				
	CURRENT ADJ. RANGE	2~4A	1.33~2.66A	1.14 ~ 2.28A	1 ~ 2A	0.89 ~ 1.78A		
	VOLTAGE TOLERANCE Note.4	±3.0%	±2.5%	±2.5%	±2.0%	±2.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
			±1.0%					
	LOAD REGULATION	±1.0%		±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME Note.6	1000ms, 80ms/115VAC 500ms, 100ms/230VAC						
	HOLD UP TIME (Typ.)	15ms/115VAC 10ms/	/230VAC					
		100 ~ 305VAC 14	42~431VDC continu	e,320VAC for 24Hrs; 3	60VAC for 1Hr			
	VOLTAGE RANGE Note.5	(Please refer to "STATIC	CHARACTERISTIC" sec	tion)				
	FREQUENCY RANGE	47 ~ 63Hz						
		PF≧0.97/115VAC, PF≧	0 95/230\/AC PE>0 92	/277\/AC@full.load				
	POWER FACTOR	(Please refer to "POWEF						
			. ,	*	24.02			
	TOTAL HARMONIC DISTORTION			30VAC; @load≧75%/277	VAC)			
		(Please refer to "TOTAL	HARMONIC DISTORT	ON(THD)" section)				
INPUT	EFFICIENCY (Typ.)	88%	89%	90%	90%	91%		
	AC CURRENT	1.1A / 115VAC 0.6A /	230VAC 0.5A/277VA	C				
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth	n=850µs measured at 509	// Ipeak) at 230VAC; Per M	NEMA 410			
	MAX. No. of PSUs on 16A			1 / /				
	CIRCUIT BREAKER	3 units (circuit breaker of	f type B) / 6 units (circuit	breaker of type C) at 230\	/AC			
		<0.75mA (077)/AC						
	LEAKAGE CURRENT	<0.75mA/277VAC						
	NO LOAD / STANDBY	No load power consumpt	tion <0.5W for Blank / A /	Dx / D2-Type				
	POWER CONSUMPTION	Standby power consump	tion <0.5W for B / AB / DA	\- Туре				
		95 ~ 108%						
	OVER CURRENT	Constant current limiting,	recovers automatically aft	er fault condition is remove	ed			
	SHORT CIRCUIT	Hiccup mode, recovers a						
PROTECTION		28 ~ 34V	41~48V	47 ~ 54V	54 ~ 62V	62~72V		
ROLOHON	OVER VOLTAGE				54~02V	02~72V		
		Shut down output voltag						
	OVER TEMPERATURE	Shut down output voltag						
	WORKING TEMP.	Tcase=-40 ~ +90°C (Plea	ase refer to " OUTPUT LO	AD vs TEMPERATURE" s	section)			
	MAX. CASE TEMP.	Tcase=+90°C						
	WORKING HUMIDITY	20 ~ 95% RH non-conder	nsing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% R	Н					
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)						
	VIBRATION	. ,	avala pariad for 72min	ach clong V. V. 7 oyog				
	VIDICATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.13-12; IEC/BS EN/EN/AS/NZS 61347-1, IEC/BS EN/EN/AS/NZS 61347-2-13 independent,						
	SAFETY STANDARDS					2S 61347-2-13 independent, B/48/48B/54/54A/54ADA/54E		
	SAFETT STANDARDS			61347-1, KC61347-2-13				
OAFET!	DALI STANDARDS	Compliance to IEC6238		,	••			
SAFETY &	WITHSTAND VOLTAGE			, ,, ,				
EMC		I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥60%); BS EN/EN61000-3-3;GB17743, GB17625.1;						
				3-2 Class C (@load \geq 60	%); BS EN/EN61000-3-3;G	GB17743, GB17625.1;		
	EMC EMISSION	EAC TP TC 020; KC KN15,KN61547						
	EMC EMISSION	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)						
	EMC EMISSION EMC IMMUNITY							
	EMC IMMUNITY	EAC TP TC 020; KC KN1	15, KN61547					
	EMC IMMUNITY MTBF	EAC TP TC 020; KC KN1 2920.8K hrs min. Telcord	15, KN61547 ia SR-332 (Bellcore)	282.9Khrs min. MIL-H	HDBK-217F (25℃)			
OTHERS	EMC IMMUNITY	EAC TP TC 020; KC KN1	15, KN61547 ia SR-332 (Bellcore)	282.9Khrs min. MIL-H	HDBK-217F (25℃)			
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	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially	EAC TP TC 020; KC KN1 2920.8K hrs min. Telcord 199*63*35.5mm (L*W*H) 0.85kg; 16pcs/14.2kg/0.7 mentioned are measured a	I5, KN61547 ia SR-332 (Bellcore)) '2CUFT t 230VAC input, rated cur	rent and 25 $^\circ\!\!\mathbb C$ of ambient	temperature.			
OTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING ME	EAC TP TC 020; KC KN1 2920.8K hrs min. Telcord 199*63*35.5mm (L*W*H) 0.85kg; 16pcs/14.2kg/0.7 mentioned are measured a	I5, KN61547 ia SR-332 (Bellcore)) '2CUFT t 230VAC input, rated cur	rent and 25 $^\circ\!\!\mathbb C$ of ambient	temperature.			
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	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING ME under rated power delivery. 3. Ripple & noise are measured 4. Tolerance : includes set up to	EAC TP TC 020; KC KN1 2920.8K hrs min. Telcord 199*63*35.5mm (L*W*H) 0.85kg; 16pcs/14.2kg/0.7 mentioned are measured a THODS OF LED MODULE at 20MHz of bandwidth by erance, line regulation and	15, KN61547 ia SR-332 (Bellcore)) /2CUFT t 230VAC input, rated cur '''. For DA-Type, Constant using a 12" twisted pair-w load regulation.	rent and 25°C of ambient Current region is 60%~10 vire terminated with a 0.1u	temperature. 00% of maximum voltage f & 47uf parallel capacitor.			
	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING ME under rated power delivery. 3. Ripple & noise are measured 4. Tolerance : includes set up to 5. De-rating may be needed unc	EAC TP TC 020; KC KN1 2920.8K hrs min. Telcord 199*63*35.5mm (L*W*H; 0.85kg; 16pcs/14.2kg/0.7 mentioned are measured a THODS OF LED MODULE at 20MHz of bandwidth by erance, line regulation and er low input voltages. Pleas	15, KN61547 ia SR-332 (Bellcore)) '2CUFT t 230VAC input, rated cur ". For DA-Type, Constant using a 12" twisted pair-w load regulation. se refer to "STATIC CHAF	rent and 25°C of ambient Current region is 60%~10 ire terminated with a 0.1u RACTERISTIC" sections for	temperature.)0% of maximum voltage f & 47uf parallel capacitor. or details.			
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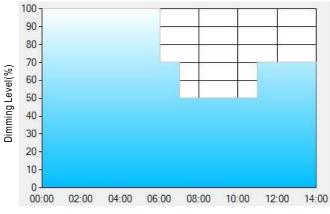
※ DALI Interface (primary side; for DA-Type)

- · Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.

% Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

Ex : O D01-Type: the profile recommended for residential lighting



Set up for D01-Type in Smart timer dimming software program:

	T1	T2	Т3	Τ4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance:

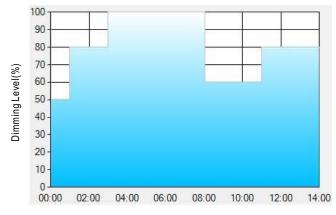
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.

[3] The power supply will switch to the constant current level at 50% in turn, starting from 1:00am, which is 07:00 after the power supply turns on.

[4] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 8:00am, which is 14:00 after the power supply turns on.

Ex: O D02-Type: the profile recommended for street lighting



Set up for D02-Type in Smart timer dimming software program:

	T1	T2	Т3	T4	Τ5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

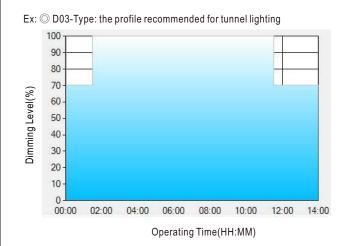
Operating Time(HH:MM)

**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

- Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:
- [1] The power supply will switch to the constant current level at 50% starting from 5:00pm.
- [2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.

^[5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.





Set up for D03-Type in Smart timer dimming software program:

	T1	T2	Т3
TIME**	01:30	11:00	
LEVEL**	70%	100%	70%

**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

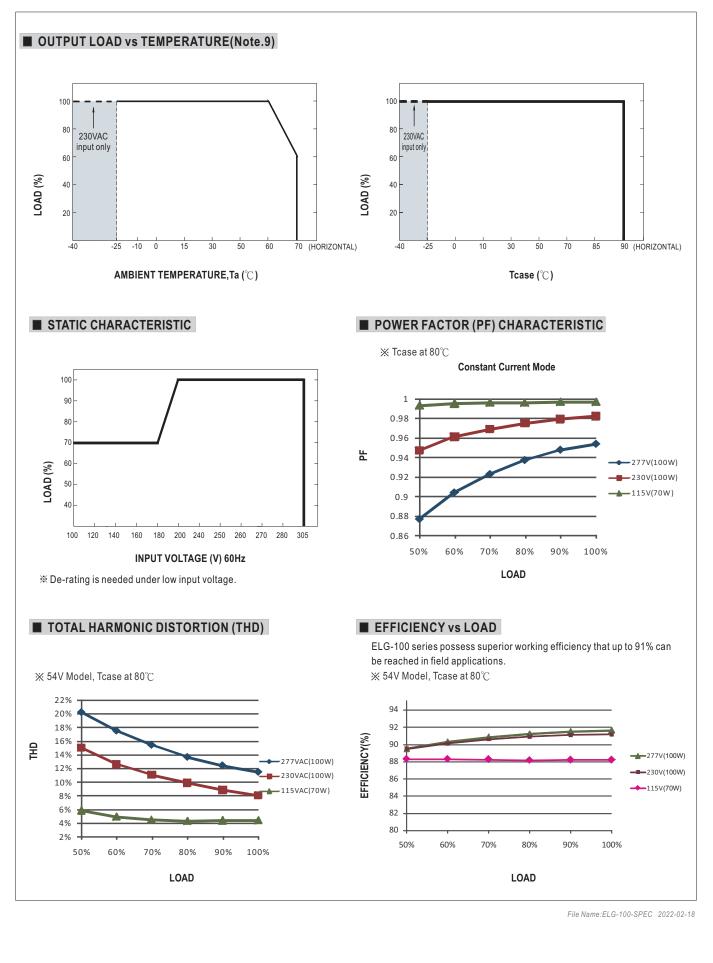
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.

[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



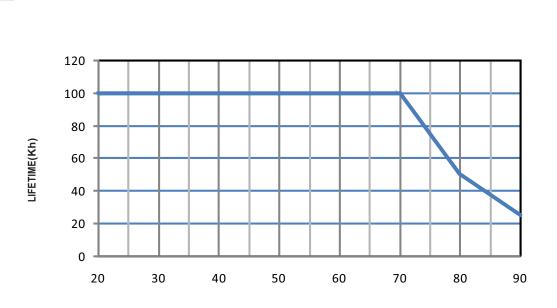
70~100W Constant Voltage + Constant Current LED Driver ELG-100 series





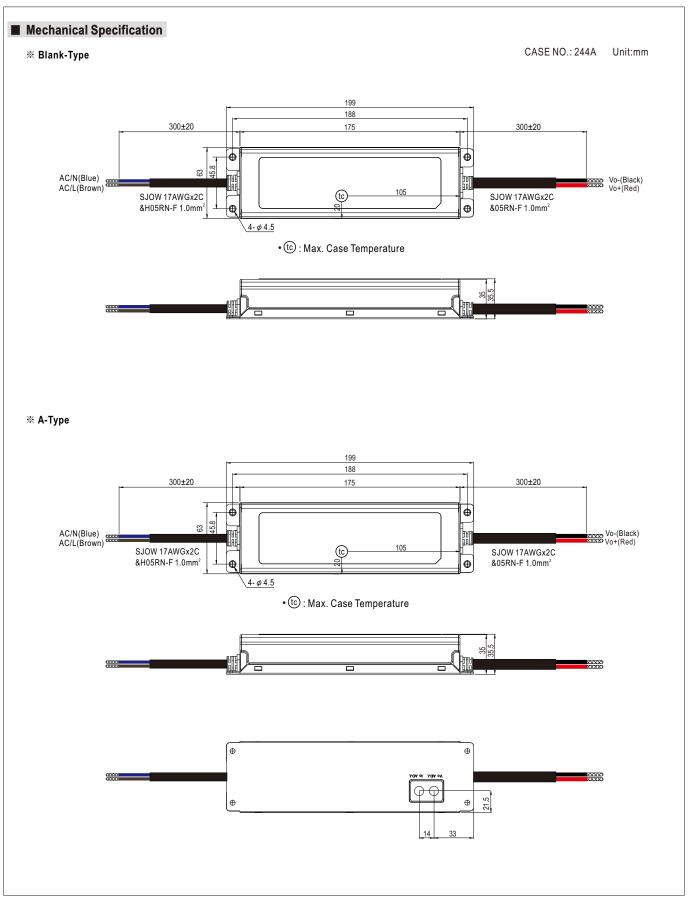
70~100W Constant Voltage + Constant Current LED Driver **ELG-100** series

LIFE TIME

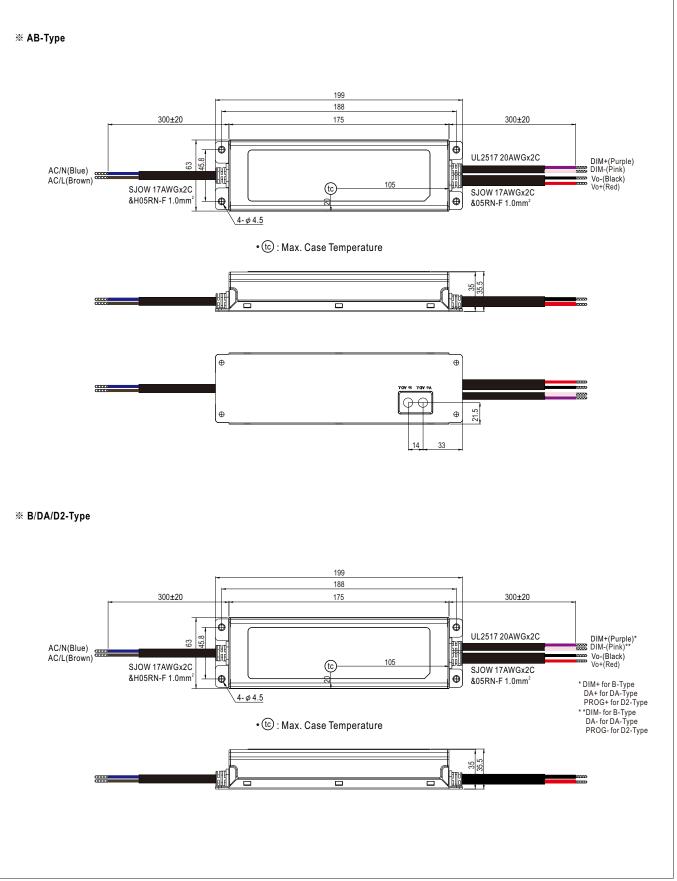


Tcase ($^\circ\!\mathbb{C}$)



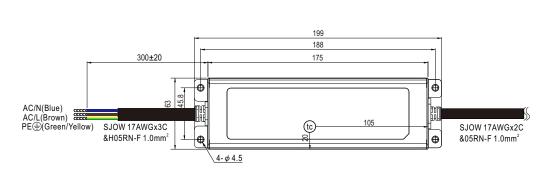








※ 3Y Model (3-wire input)



• 🛈 : Max. Case Temperature

 \odot Note1: Please connect the case to PE for the complete EMC deliverance and safety use. \odot Note2: Please contact MEAN WELL for input wiring option with PE.

■ INSTALLATION MANUAL

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