





Features

- Constant Voltage + Constant Current mode output
- Metal housing design with functional Ground
- Built-in active PFC function
- 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

Applications

- LED street lighting
- · LED architectural lighting
- LED bay lighting
- LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

ELG-200 series is a 200W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-200 operates from $100 \sim 305$ VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for -40° C $\sim +90^{\circ}$ 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-200 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 - 200 - 24	
	Input wiring type
	Function mode option 3Y:3-wire input for standard model
	——— Rated output voltage(12/24/36/42/48/54V)
	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	B 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



SPECIFICATION

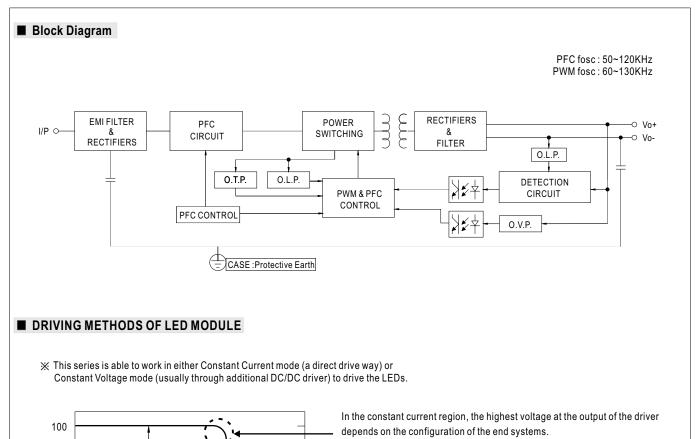
MODEL		ELG-200-12 🗌	ELG-200-24	ELG-200-36	ELG-200-42	ELG-200-48	ELG-200-54	
	DC VOLTAGE	12V	24V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.2	6 ~ 12V	12 ~ 24V	18 ~ 36V	21~42V	24 ~ 48V	27 ~ 54V	
	RATED CURRENT	16A	8.4A	5.55A	4.76A	4.16A	3.72A	
		200VAC ~ 305VAC						
	RATED POWER	192W	201.6W	199.8W	199.9W	199.68W	200.88W	
		100VAC ~ 180VAC		1		1		
		144W	150W	149.76W	149.94W	149.76W	150.12W	
			200mVp-p	250mVp-p	250mVp-p		350mVp-p	
	RIPPLE & NOISE (max.) Note.3				25011vp-p	250mVp-p	550mvp-p	
	VOLTAGE ADJ. RANGE	,	Type only (via built-in	, ,				
OUTPUT		11.2 ~ 12.8V	22.4 ~ 25.6V	33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V	
UUIPUI	CURRENT ADJ. RANGE	Adjustable for A/AB-	Type only (via built-in	potentiometer)				
	CORRENTADJ. RANGE	8 ~ 16A	4.2 ~ 8.4A	2.78 ~ 5.55A	2.38 ~ 4.76A	2.08~4.16A	1.86 ~ 3.72A	
	VOLTAGE TOLERANCE Note.4	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME Note.6		AC, 1000ms, 100ms		2010/0		1	
		10ms/ 230VAC 10m						
	HOLD UP TIME (Typ.)							
	VOLTAGE RANGE Note.5		142 ~ 431VDC					
			ATIC CHARACTERIS	TIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR		$F \ge 0.95/230VAC, PF$					
		(Please refer to "POV	VER FACTOR (PF) CH	HARACTERISTIC" se	ction)			
			50%/115VC,230VAC					
	TOTAL HARMONIC DISTORTION	(Please refer to "TC	TAL HARMONIC DIS	STORTION(THD)" se	ection)			
INPUT	EFFICIENCY (Typ.)	90%	92%	92%	92.5%	93%	93%	
	AC CURRENT	1.8A / 115VAC 1.		277VAC				
	INRUSH CURRENT(Typ.)	COLD START 60A(t	width=510us measure	ed at 50% lpeak) at 2	30VAC; Per NEMA 41	0		
	MAX. No. of PSUs on 16A			,,,,,		•		
	CIRCUIT BREAKER	4 units (circuit breal	ker of type B) / 6 units	(circuit breaker of ty	vpe C) at 230VAC			
	LEAKAGE CURRENT	<0.75mA / 277\/AC						
	LEARAGE CURRENT	<0.75mA / 277VAC						
	NO LOAD / STANDBY		umption <0.5W for Bla					
	POWER CONSUMPTION Note.7	Standby power cons	sumption <0.5W for B	/ AB / DA-Type				
		95 ~ 108%						
	OVER CURRENT	Constant current lim	iting, recovers autom	atically after fault cor	ndition is removed			
	SHORT CIRCUIT		ers automatically afte					
PROTECTION		13.5~18V	27~34V	42~49V	47~54V	54~63V	60~67V	
	OVER VOLTAGE	Shut down output v	oltage, re-power on t	o recover				
	OVER TEMPERATURE		oltage, re-power on t					
	WORKING TEMP.		(Please refer to " OUT					
				FUI LOAD VS I EIVIF	ERATURE Section)			
	MAX. CASE TEMP.	Tcase=+90℃						
	WORKING HUMIDITY	20 ~ 95% RH non-co	<u> </u>					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +90℃, 10 ~ 95	5% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C	2)					
	VIBRATION	10 ~ 500Hz, 5G 12m	in./1cycle, period for	72min. each along X	K, Y, Z axes			
		UL8750(type"HL"), (CSA C22.2 No. 250.13	3-12;IEC/EN/AS/NZS	61347-1, IEC/EN/AS	NZS 61347-2-13 indep	endent, EN62384;	
	SAFETY STANDARDS	EAC TP TC 004;BIS	IS15885(for 12/12A/	12B/12DA/24/24A/24	B/24DA/36/36A/36B/4	2A/42B/48/48A/48B/54	4A/54B only);	
		GB19510.14,GB195	510.1; IP65 or IP67;K0	C61347-1,KC61347-	2-13 approved			
	DALI STANDARDS	Compliance to IEC	62386-101,102,(207	by request) for DA T	ype only			
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/I	P-FG:100M Ohms / 5	00VDC/25°C/70%	RH			
	EMC EMISSION					5.1,GB17743;EAC TP TC	020; KC KN15.KN615	
	EMC IMMUNITY					KV, Line-Line 4KV);EAC TP		
	MTBF	· ·	Felcordia SR-332 (Bel		<u> </u>			
OTHERS	DIMENSION	244*71*37.5mm (L*)	,			(-00)		
UTHERS			,					
	PACKING	1.22Kg; 12pcs / 15.2Kg / 0.72CUFT						
NOTE	1. All parameters NOT special 2. Please refer to "DRIVING M			put, rated current ar	nd 25°C of ambient te	mperature.		
				twisted pair-wire terr	minated with a 0.1uf &	47uf parallel capacito	or.	
	4. Tolerance : includes set up	red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.						
	5. De-rating may be needed u							
	 Length of set up time is me No load/standby power con 				to increase of the se	t up time.		
					quipment. Since EMC	performance will be a	ffected by the	
	 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. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70°C or least the typical life expectance of typical life expectan							
							about 70°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 200 12.For any application note and IP water proof function installation caution, please refer our user manual before using.					er than 2000m/6E00		
						ici tilali 200011(0300		
https://www.meanwell.com/Upload/PDF/LED_EN.pdf								
	13.BIS IS15885(for 12/12A/12) % Product Liability Disclaimer	B/12DA/24/24A/24B/2	24DA/36/36A/36B/42	A/42B/48/48A/48B/5	64A/54B)	Ella Maria el	C 200 SPEC 2000 00 0	
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Vo(%)

50 (min.)

144~200W Constant Voltage + Constant Current LED Driver **ELG-200** series



Should there be any compatibility issues, please contact MEAN WELL.

Typical output current normalized by rated current (%)

(C)
 Hiccup
 Protection

100

(A) Constant

Voltage area

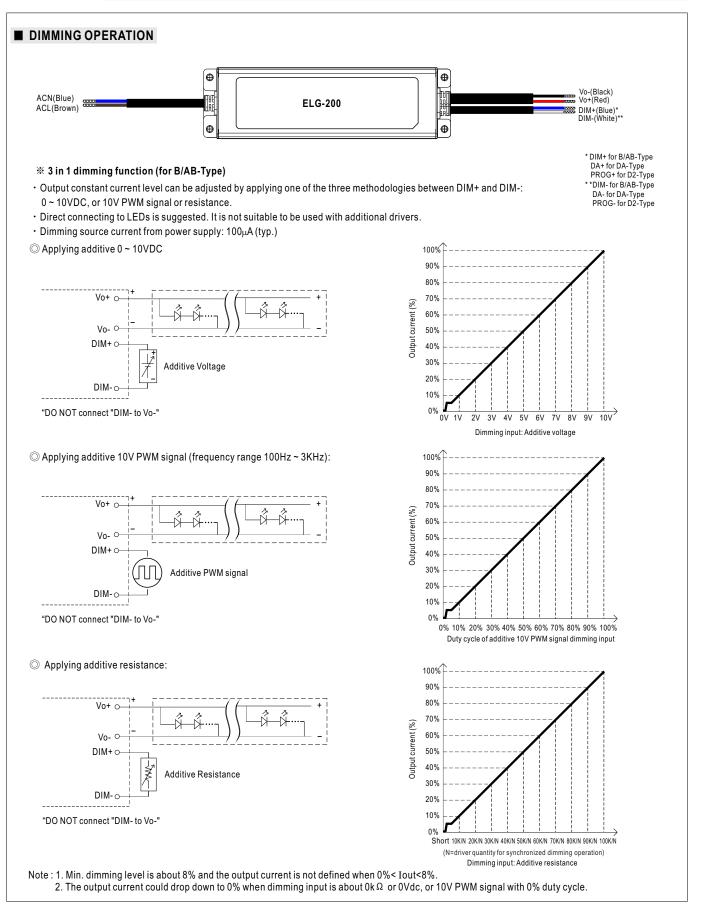
50

(B)

Constant – Current area

lo(%)







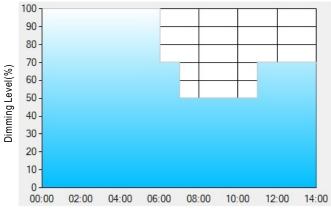
※ DALI Interface (primary side; for DA-Type)

- 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:

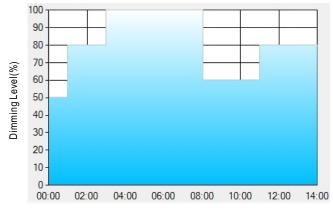
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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%



**: 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.

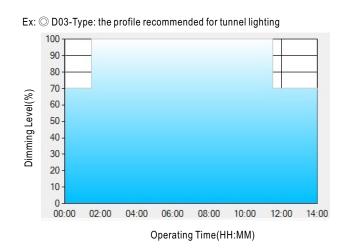
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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.

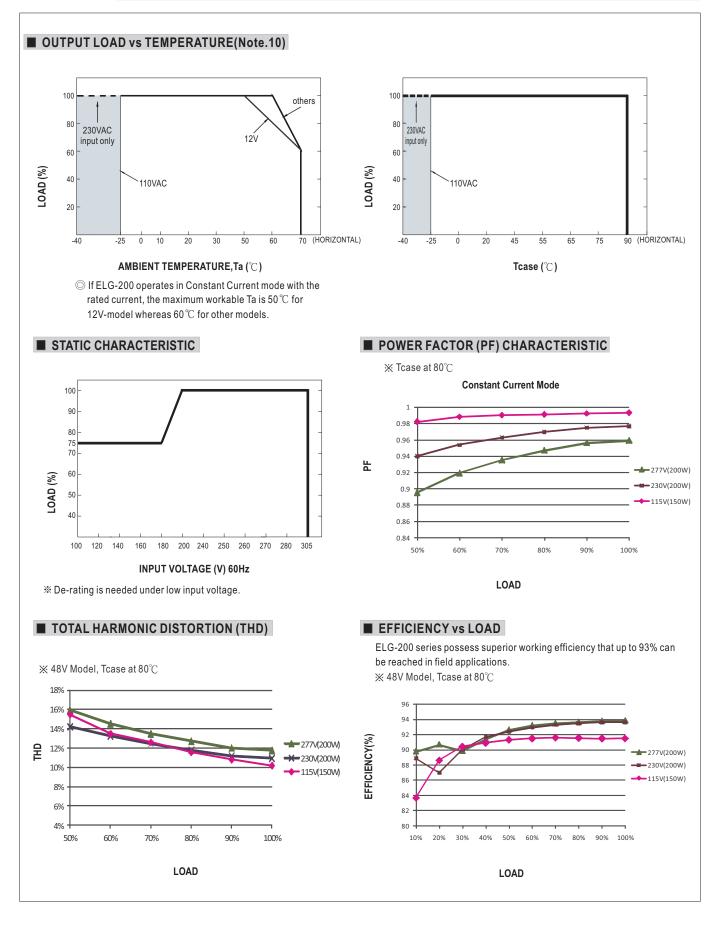
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

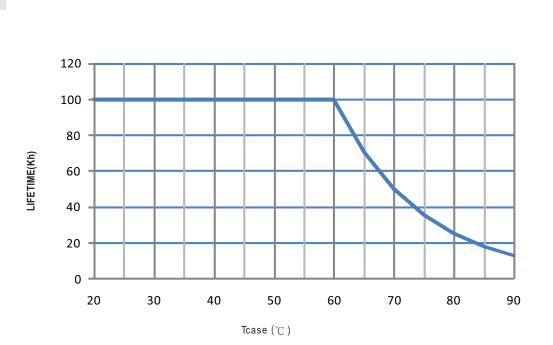
[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



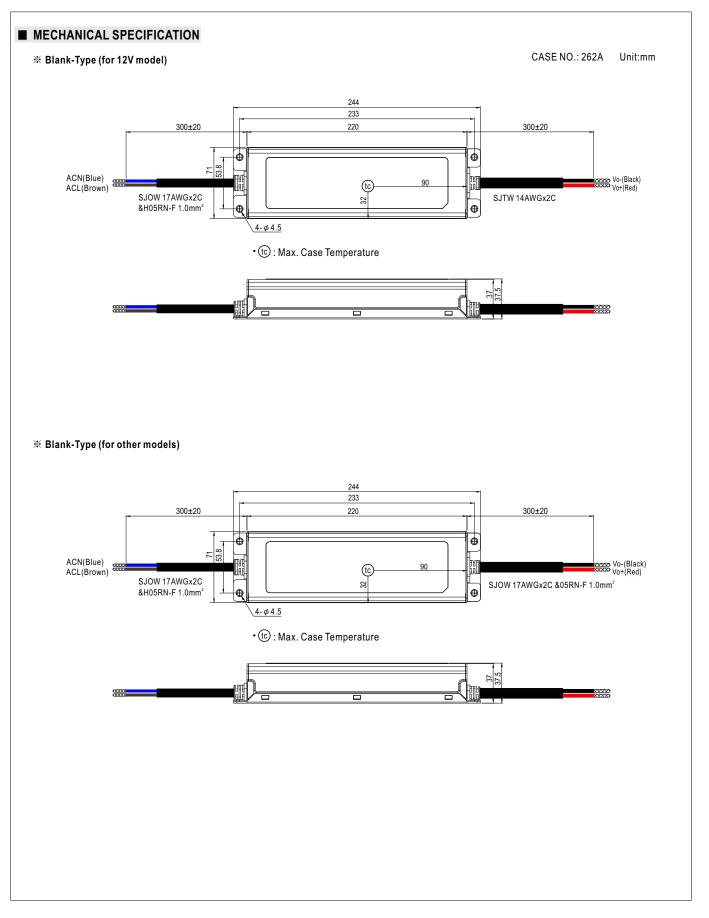




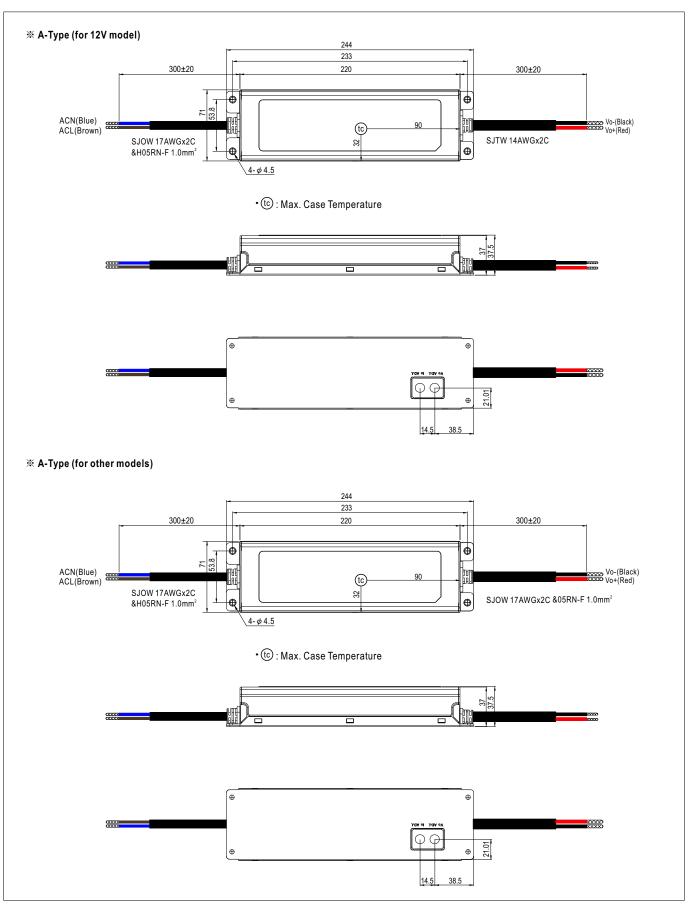
LIFE TIME





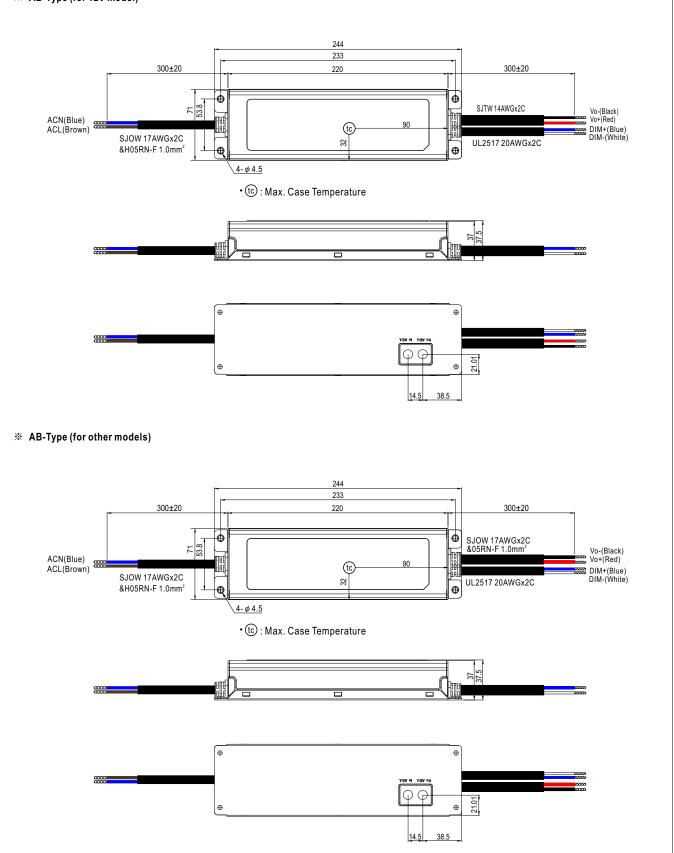






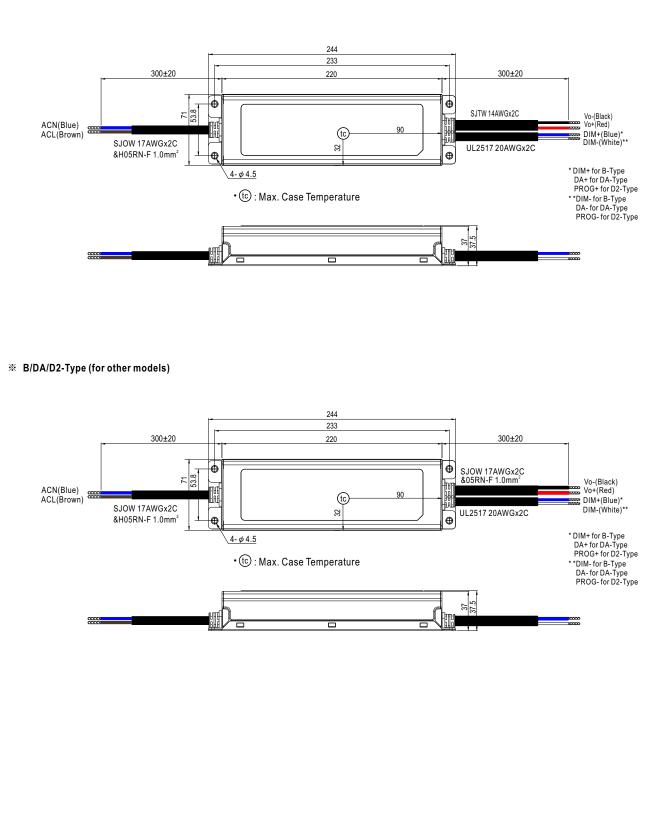


※ AB-Type (for 12V model)



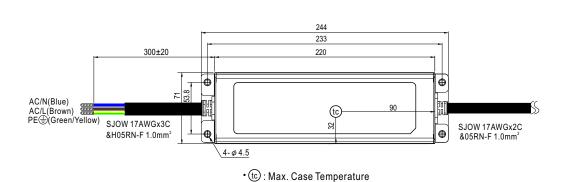








※ 3Y Model (3-wire input)



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

INSTALLATION MANUAL

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