



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

8 R-41027766

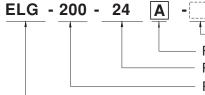
Note 13

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

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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



Function mode option ${ Blank:2-wire input for standard model } 3Y:3-wire input for standard model Rated output voltage(12/24/36/42/48/54V) }$

- Rated wattage
- Series name

Туре	IP Level	Function	Note
Blank	IP67	Io 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

File Name:ELG-200-SPEC 2020-09-25

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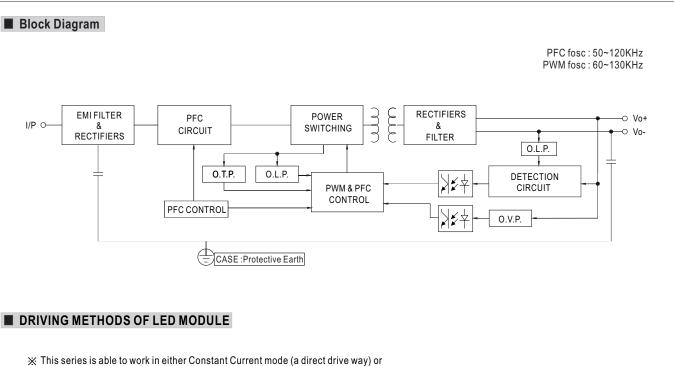
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SPECIFICATION

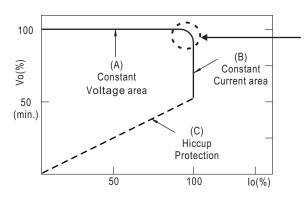
MODEL		ELG-200-12		ELG-200-24	ELG-200-36	ELG-200-42	ELG-200-48	ELG-200-54			
	DC VOLTAGE	12V		24V	36V	42V	48V	54V			
	CONSTANT CURRENT REGION Note.2	.2 6~12V		12 ~ 24V	18~36V	21~42V	24 ~ 48V	27 ~ 54V			
	RATED CURRENT	16A		8.4A	5.55A	4.76A	4.16A	3.72A			
		200VAC ~ 305VA	AC								
	RATED POWER	192W		201.6W	199.8W	199.9W	199.68W	200.88W			
	RAIEDFOWER	100VAC ~ 180VAC									
			10	45004	4.40 70144	440.0404	4.40 70144	450 40144			
		144W		150W	149.76W	149.94W	149.76W	150.12W			
	RIPPLE & NOISE (max.) Note.3	150mVp-p		200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p			
	VOLTAGE ADJ. RANGE	Adjustable for A/	AB-	Type only (via built-in	potentiometer)						
	VOLIAGE ADJ. KANGE	11.2 ~ 12.8V		22.4 ~ 25.6V	33.5 ~ 38.5V	39~45V	44.8~51.2V	50 ~ 57V			
OUTPUT			AR-	Type only (via built-in		1					
	CURRENT ADJ. RANGE	8 ~ 16A		4.2 ~ 8.4A	2.78 ~ 5.55A	2.38~4.76A	2.00 4.464	1.86 ~ 3.72A			
						-	2.08 ~ 4.16A				
	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	500ms, 100ms/230VAC, 1000ms, 100ms/115VAC									
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 115VAC									
		100 ~ 305VAC		142 ~ 431VDC							
	VOLTAGE RANGE Note.5										
	FREQUENCY RANGE										
	FREQUENCI RANGE										
	POWER FACTOR	$PF \ge 0.97/115VAC, PF \ge 0.95/230VAC, PF \ge 0.92/277VAC @full load$									
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)									
	TOTAL HARMONIC DISTORTION				;@load≧75%/277VA						
		(Please refer to	"TO	TAL HARMONIC DIS	STORTION(THD)" se	ction)					
INPUT	EFFICIENCY (Typ.)	90%		92%	92%	92.5%	93%	93%			
	AC CURRENT	1.8A / 115VAC	1.2	2A / 230VAC 1.0A/	277VAC		1				
	INRUSH CURRENT(Typ.)	COLD START 6	0A(t	width=510us measure	ed at 50% (peak) at 23	30VAC; Per NEMA 410					
	MAX. No. of PSUs on 16A										
	CIRCUIT BREAKER	4 units (circuit b	oreak	er of type B) / 6 units	(circuit breaker of typ	be C) at 230VAC					
		0.75 4 (077)									
	LEAKAGE CURRENT	<0.75mA / 277VAC									
	NO LOAD / STANDBY	No load power consumption <0.5W for Blank / A / Dx / D-Type									
	POWER CONSUMPTION Note.7										
		95 ~ 108%									
	OVER CURRENT		A Dara		-4:	ditters to some or all					
		Constant current limiting, recovers automatically after fault condition is removed									
PROTECTION	SHORT CIRCUIT		COVE		r fault condition is rem			00 071/			
PROTECTION	OVER VOLTAGE	13.5 ~ 18V		27~34V	42~49V	47 ~ 54V	54 ~ 63V	60~67V			
		Shut down output voltage, re-power on to recover									
	OVER TEMPERATURE	Shut down outp	ut vo	ltage, re-power on t	o recover						
	WORKING TEMP.	Tcase=-40 ~ +90	°C (Please refer to " OUT	PUT LOAD vs TEMP	ERATURE" section)					
	MAX. CASE TEMP.	Tcase=+90°C									
	WORKING HUMIDITY	20 ~ 95% RH no	n-co	ndensina							
ENVIRONMENT	STORAGE TEMP., HUMIDITY			0							
ENVIRONMENT											
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
	SAFETY STANDARDS	UL8750(type"HL	_"), C	SA C22.2 No. 250.13	3-12;IEC/EN/AS/NZS	61347-1, IEC/EN/AS/I	NZS 61347-2-13 indep	endent, EN62384;			
	SAFETT STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12;IEC/EN/AS/NZS 61347-1, IEC/EN/AS/NZS 61347-2-13 independent, EN62384; EAC TP TC 004;BIS IS15885(for 12/12A/12B/12DA/24/24A/24B/24DA/36/36A/36B/42A/42B/48/48A/48B/54A/54B only);									
		GB19510.14,GE	3195	10.1; IP65 or IP67;K0	C61347-1,KC61347-2	-13 approved					
	DALI STANDARDS	Compliance to IEC62386-101,102,(207 by request) for DA Type only									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KV	AC	I/P-FG:2.0KVAC	O/P-FG:1.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P. I/P-FG	. O/F	P-FG:100M Ohms / 5	00VDC/25°C/70% F	₹ Н					
EMC	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH Compliance to EN55015,EN61000-3-2 Class C (@load ≥50%) ; EN61000-3-3;GB17625.1,GB17743;EAC TP TC 020; KC KN15,KN6154									
							V, Line-Line 4KV);EAC TP				
						· ·		10 020, NO NN 10, KNO			
	MTBF	826.7K hrs min.			icore) ; 200.8Khrs min	MIL-HDBK-217F	(25 ()				
OTHERS	DIMENSION	244*71*37.5mm	<u>`</u>	,							
	PACKING	1.22Kg; 12pcs / 15.2Kg / 0.72CUFT									
NOTE	 All parameters NOT special Please refer to "DRIVING M Ripple & noise are measure Tolerance : includes set up De-rating may be needed ui Length of set up time is mea No load/standby power con The driver is considered as complete installation, the finis This series meets the typica Dease refer to the warranty The ambient temperature d For any application note an https://www.meanwell.com/ 	ETHODS OF LE d at 20MHz of b& tolerance, line reg der low input vo asured at first col- sumption is spe a component tha al equipment man al equipment man l life expectancy s statement on M erating of $3.5^{\circ}C/1$ d IP water proof if	ED M andw gulat ltage d sta cified t will nufa of > EAN 1000 funct	IODULE". ion and load regulati is. Please refer to "S s. Please refer to "S ut. Turning ON/OFF d for 230VAC input be operated in com cturers must re-quali 50,000 hours of oper I WELL's website at m with fanless mode tion installation cautic	twisted pair-wire term ion. ITATIC CHARACTER the driver may lead to bination with final equination with final equination with final equination fy EMC Directive on ration when Tcase, pri http://www.meanwell els and of 5°C/1000m	Alson and the sections for contract of the sections for contract of the section o	47uf parallel capacito letails. up time. performance will be a ion again. r TMP, per DLC), is a opperating altitude high	ffected by the bout 70°C or less.			







Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

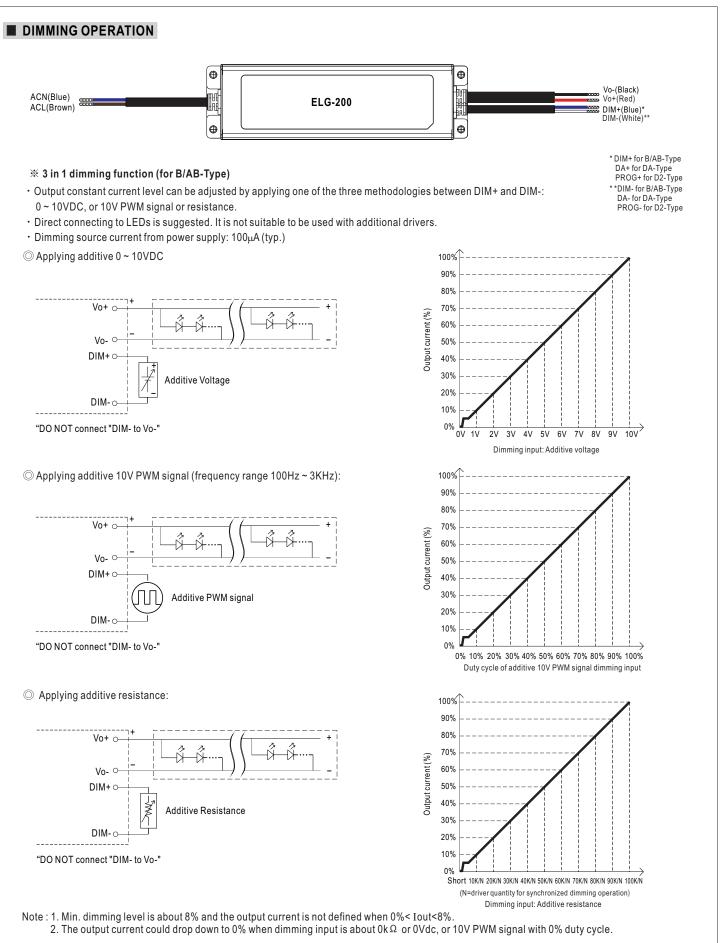
Should there be any compatibility issues, please contact MEAN WELL.

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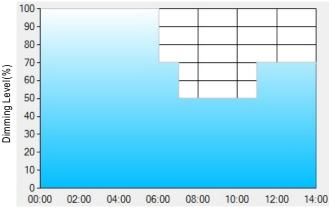
- **※ DALI Interface (primary side; for DA-Type)**
- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.

% 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.

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



Set up for D01-Type in Smart time	er dimming software program:
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	T1	T2	Т3	T4
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.

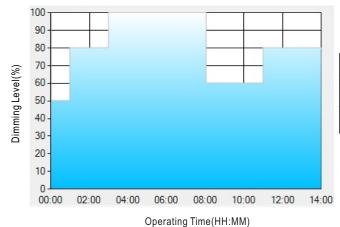
[2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.

[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 Sma	t timer dimming :	software program:
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	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.

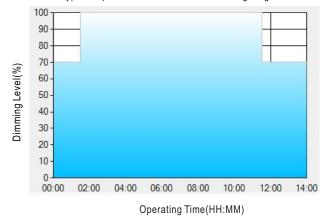
[5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The

constant current level remains till 6:30am, which is 14:00 after the power supply turns on.





Ex: O D03-Type: the profile recommended for tunnel lighting



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:

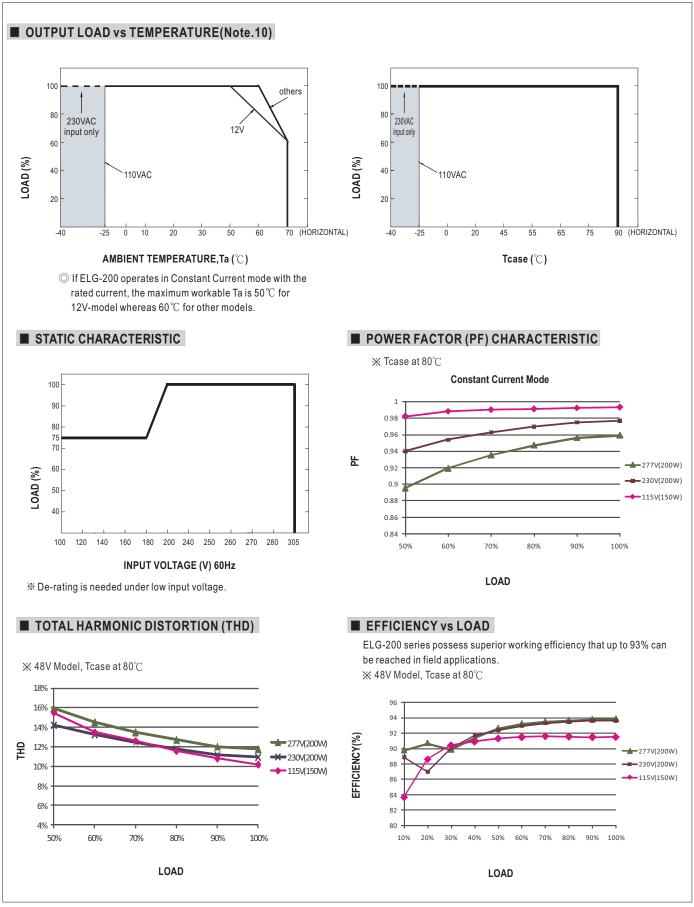
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[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.



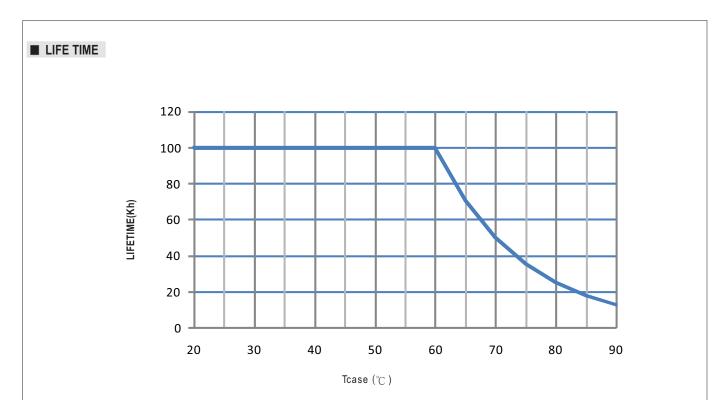






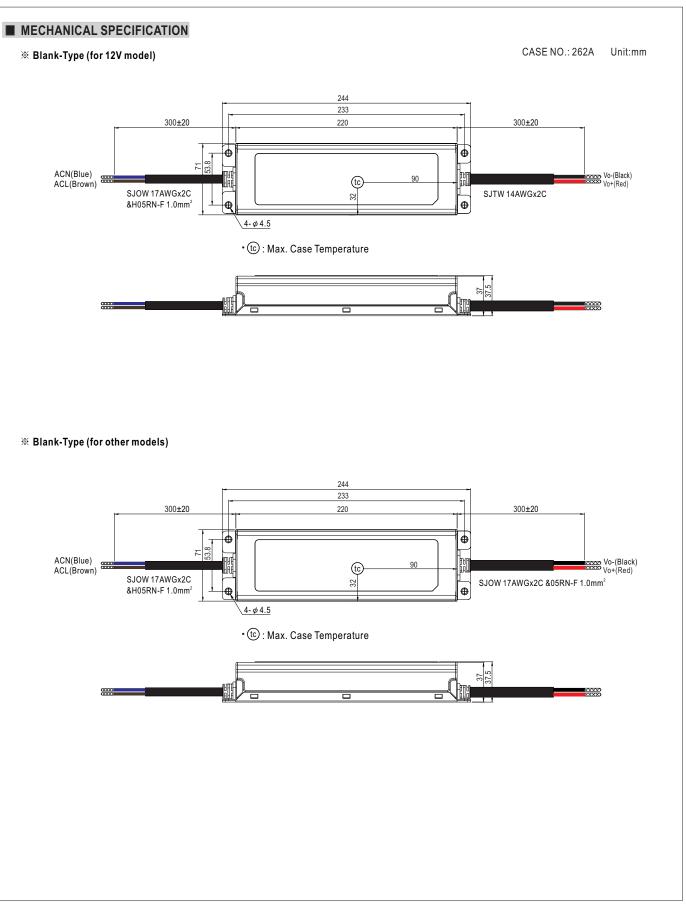








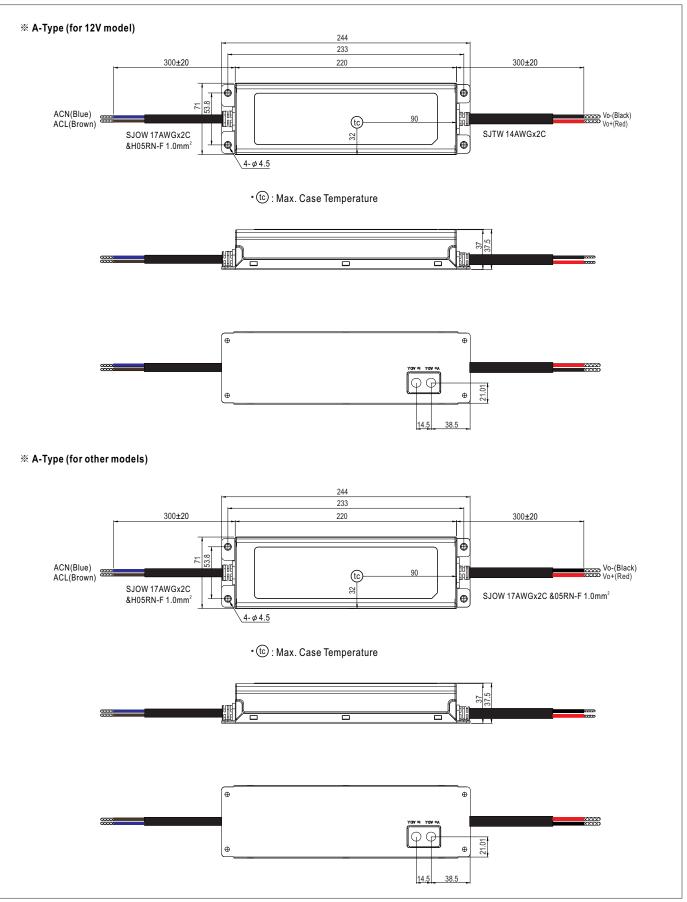




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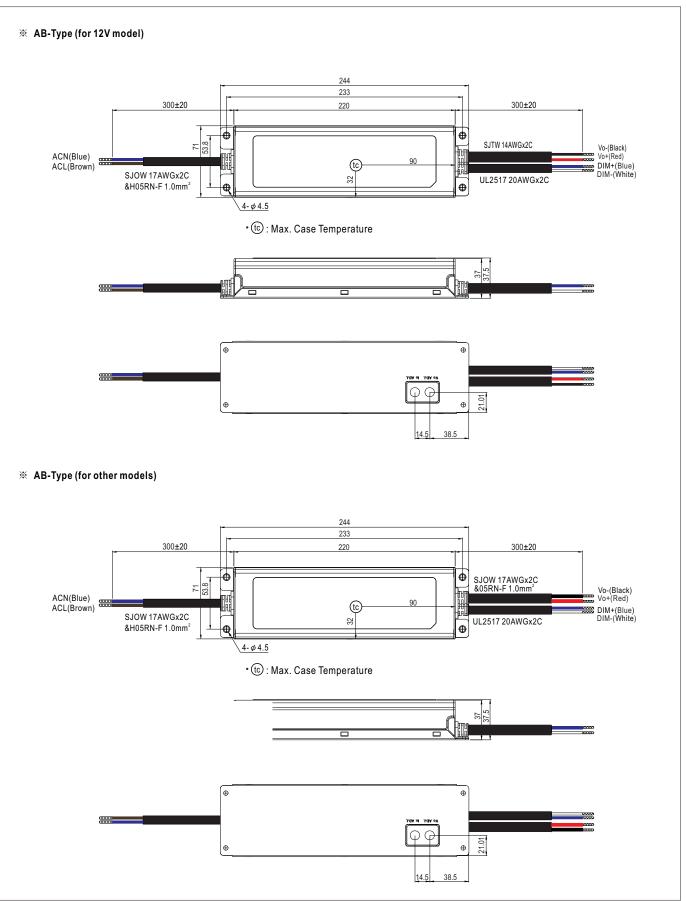


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