

Наличие и актуальные цены на

# ELG-200-48A-3Y

## https://www.meanwell.ru/store/ELG-200-48A-3Y/







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
- No load / Standby power consumption <0.5W</li>
- 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-200 series is a 200W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-200 operates from 100 ~ 305VAC 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  $^{\circ}$ 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-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	A -
	Input wiring type
	Function mode option $J_{3Y:3}$ -wire input for standard model
	———— Rated output voltage(12/24/36/42/48/54V)
	Rated wattage
	——————————————————————————————————————

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

File Name:ELG-200-SPEC 2024-10-11



### SPECIFICATION

DC VOLTAGE CONSTANT CURRENT REGION Note.2 RATED CURRENT	12V	24V	36V	42V	48V	54V		
					-	-		
RATED CURRENT		12 ~ 24V	18 ~ 36V	21~42V	24 ~ 48V	27 ~ 54V		
	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		
RIPPLE & NOISE (max.) Note.3	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
	Adjustable for A/AB-Type only (via built-in potentiometer)							
VOLTAGE ADJ. RANGE	11.2~12.8V         22.4~25.6V         33.5~38.5V         39~45V         44.8~51.2V         50~57V							
CURRENT ADJ. RANGE		-Type only (via built-in	· · · ·					
	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%		
						±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 10n	ns/ 115VAC						
	100 ~ 305VAC 142 ~ 431VDC							
	·	ALIC CHARACTERIS	IIC" section)					
FREQUENCY RANGE	47 ~ 63Hz							
POWER FACTOR	PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)							
TOTAL HARMONIC DISTORTION								
EFFICIENCY (Typ.)	90%	92%	92%	92.5%	93%	93%		
AC CURRENT	1.8A / 115VAC 1	.2A / 230VAC 1.0A/	277VAC					
INRUSH CURRENT(Typ.)	COLD START 60A	twidth=510μs measur	ed at 50% Ipeak) at 2	230VAC; Per NEMA 41	0			
MAX. No. of PSUs on 16A CIRCUIT BREAKER 4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC								
LEAKAGE CURRENT	<0.75mA / 277VAC							
NO LOAD / STANDBY POWER CONSUMPTION Note.7	No load power consumption <0.5W for Blank / A / Dx / D-Type							
OVER CURRENT	95 ~ 108%							
SHORT CIRCUIT								
SHORT CIRCOTT					51~631/	60~67V		
OVER VOLTAGE				47 547	54 * 05 V	00 077		
OVER TEMPERATURE		<b>U</b>						
	· · ·	0 / 1		PERATURE" section)				
		(						
	-	ondensing						
		0						
	- \	- /	72min oach along '	X X 7 axaa				
SAFETY STANDARDS	UL8750(type"HL"), BS EN/EN62384; E	CSA C22.2 No. 250.13 AC TP TC 004;BIS IS1	-12;IEC/BS EN/EN/A 5885(for 12/12A/12E	S/NZS 61347-1, IEC/B 3/12DA/24/24A/24B/24I		•		
DALI STANDARDS								
WITHSTAND VOLTAGE		· · · ·	· · · ·					
ISOLATION RESISTANCE				RH				
EMC EMISSION	Compliance to BS E	N/EN55015,BS EN/E			N/ EN61000-3-3;GB/T	17743,GB17625.1		
EMC IMMUNITY		C TP TC 020; KC KN15	5,KN61547			-Earth 6KV,		
MTBF	2391.4K hrs min.	Telcordia SR-332 (Be	ellcore) ;204.9K hrs r	min. MIL-HDBK-217	F (25°C)			
DIMENSION		,						
PACKING	1.22Kg; 12pcs / 15.	2Kg / 0.72CUFT						
<ol> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>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.</li> <li>No load/standby power consumption is specified for 230VAC input.</li> <li>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-quality EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)</li> <li>The series meets the typical life expectancy of &gt;50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 70°C or less.</li> <li>Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</li> <li>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</li> <li>BIS IS15885(for 12/12A/12B/12DA/24/24ADA/36/36A/36B/42A/42B/48A/48B/54A/54B).</li> <li>To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently</li> </ol>								
	LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT NO LOAD / STANDBY POWER CONSUMPTION Note.7 OVER CURRENT SHORT CIRCUIT OVER VOLTAGE DVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS MITHSTAND VOLTAGE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially r 2. Please refer to "DRIVING MET 13. Ripple & noise are measured ta 4. Tolerance : includes set up toles 5. De-rating may be needed und6 6. Length of set up time is meass. 7. No load/standby power consured 4. Tolerance : includes set up toles 5. De-rating may be needed und6 6. Length of set up time is meass. 7. No load/standby power consured 4. Tolerance : includes set up toles 5. De-rating may be needed und6 6. Length of set up time is meass. 7. No load/standby power consured 1. The ase refer to "DRIVING MET 13. Ripple & noise are measured ta 4. Tolerance : includes set up toles 5. De-rating may be needed und6 1. All parameters NOT specially r 2. Please refer to "DRIVING MET 3. Ripple & noise are measured ta 4. Tolerance : includes set up toles 5. De-rating may be needed und6 1. All parameters NOT specially r 2. For any application note and measured to the warranty set the typical lift 1. The amount the warranty set the typical lift 1. The	LINE REGULATION       ±0.5%         LOAD REGULATION       ±2.0%         SETUP, RISE TIME Note.6       500ms, 100ms/2300         HOLD UP TIME (Typ.)       10ms/ 230VAC 10m         VOLTAGE RANGE       Note.5         FREQUENCY RANGE       47 ~ 63Hz         POWER FACTOR       PF≥0.97/115VAC, 1         FREQUENCY (Typ.)       90%         AC CURRENT       1.8A / 115VAC 1         INRUSH CURRENT(Typ.)       90%         AC CURRENT       1.8A / 115VAC 1         INRUSH CURRENT(Typ.)       COLD START 60A(         MAX. No. of PSUs on 16A       4 units (circuit breat         CIRCUIT BREAKER       Voltad power cons         Standby power cons       Standby power cons         OVER CURRENT       >0.048%         CONSUMPTION Note.7       Standby power cons         OVER VOLTAGE       13.5 ~ 18V         Shut down output working temp.       Tcase=-40 ~ +90°C         VOVER VOLTAGE       Shut down output working temp.         STCASE TEMP.       Tcase=+90°C         WORKING TEMP.       Tcase=+90°C         WORKING TEMP.       Tcase=+90°C         WORKING TEMP.       Tcase=+90°C         STORAGE TEMP.       Tcase=+90°C         WORKING TEMP.       <	LINE REGULATION $\pm 0.5\%$ $\pm 0.5\%$ LOAD REGULATION $\pm 2.0\%$ $\pm 0.5\%$ SETUP, RISE TIME Note.6         500ms, 100ms/230VAC, 1000ms, 100ms           VOLTAGE RANGE         Note.5           IOU ~ 230VAC 10ms/130VAC, 1000AC, 1000AC, 1000MS, 100MS           VOLTAGE RANGE         Note.5           IOU ~ 305VAC 142 ~ 431VDC           (Please refer to "STATIC CHARACTERIS           FREQUENCY RANGE         47 ~ 63Hz           POWER FACTOR         PF $\geq 0.97/115VAC$ , PF $\geq 0.95/230VAC$ , PF (Please refer to "TOTAL HARMONIC DISTORTION           THD < 20% @load \$50%/115VC.230VAC	LINE REGULATION         ±0.5%         ±0.5%         ±0.5%         ±0.5%           LOAD REGULATION         ±2.0%         ±0.5%         ±0.5%         ±0.5%           SETUP, RISE TIME Note.6         500ms, 100ms/130VAC         1000ms/100ms/115VAC           VOLTAGE RANGE         Note.5         100 ~ 305VAC         142 ~ 431VDC           PREQUENCY RANGE         PF ≥0.97/115VAC, PF ≥0.99/230VAC, PF ≥0.92/277VAC@ful (Please refer to "TOTAL HARMONIC DISTORTIONTON)           THD < 20% (@load≥50%/115VC, 230VAC; @load≥75%/277	LINE REGULATION         ±0.5%         ±0.5%         ±0.5%         ±0.5%         ±0.5%           LOAD REGULATION         ±2.0%         ±0.5%         ±0.5%         ±0.5%         ±0.5%           STUR, NISE TIME Notes         500ms/230VAC 10ms/115VAC         ±0.5%         ±0.5%         ±0.5%           VOLTAGE RANGE         Notes         100 - 305VAC 142 - 431VDC (resection)         FEE0.92/277VAC.@full.load           FREQUENCY RANGE         47 - 63Hz         FF ≥ 0.97/115VAC, FF ≥ 0.95/230VAC; @fload2575%/277VAC)         (reserved)           FOTAL HARMONIC DISTORTION         (PEssee refer to "POWER FACTOR (PF ≥ 0.92/277VAC.@fload275%/277VAC)         (reserved)           REFUGENCY (Typ.)         90%         92%         92.5%         92.5%           AC CURRENT         1.8A/115VAC         1.2A/230VAC         1.0A/277VAC           NUSLEN CURRENT(TYp.)         COLD START 60A(twidth=510µs measured at 50% logeak) at 230VAC; Per NEMA 41           MAX. No. of PSUs on 16A         4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC           No Load power consumption <0.5W for Blank / A / Dx / D-Type	LINE REGULATION         40.5%         ±0.5%		



Voltage area

50

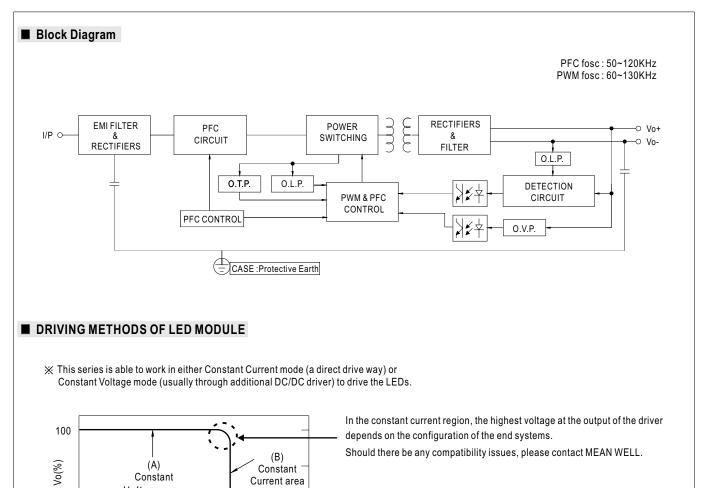
(C)
 Hiccup
 Protection

100

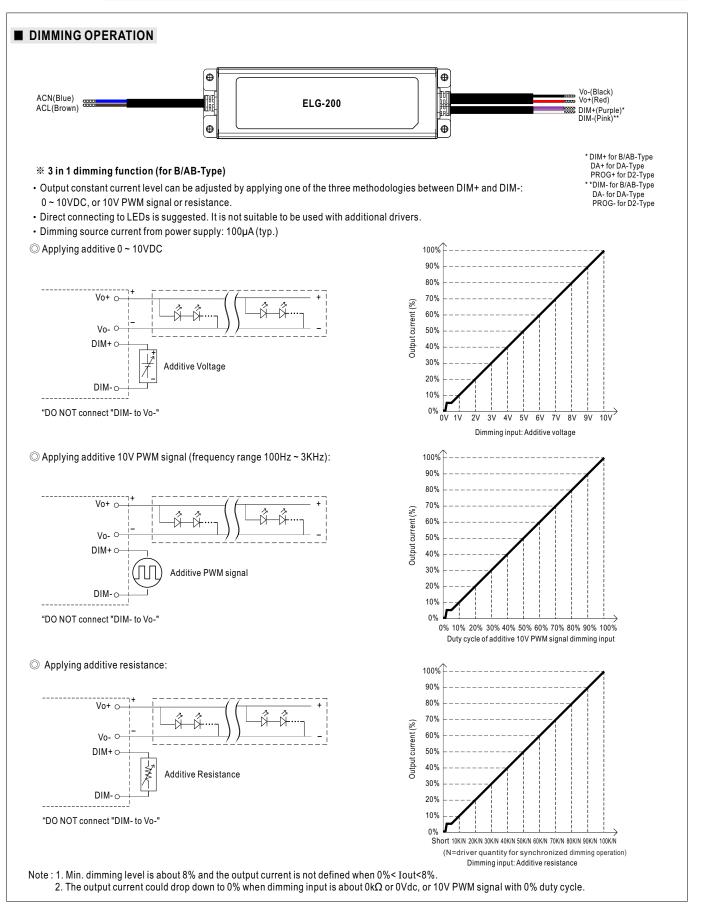
Typical output current normalized by rated current (%)

lo(%)

50 (min.)









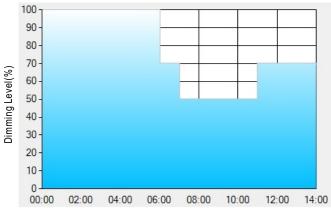
#### **※ DALI Interface (primary side; for DA-Type)**

- 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.

 $Ex: \bigcirc D02$ -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.

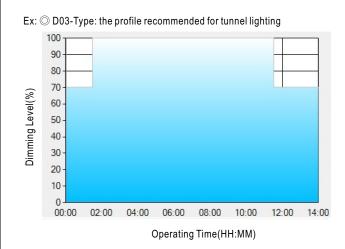
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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.

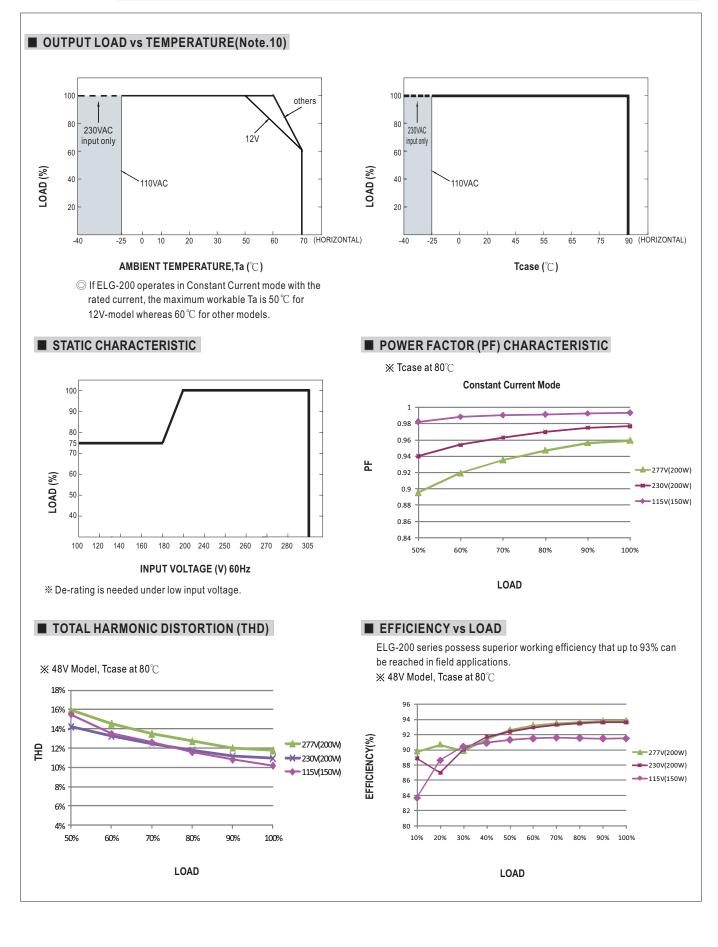
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

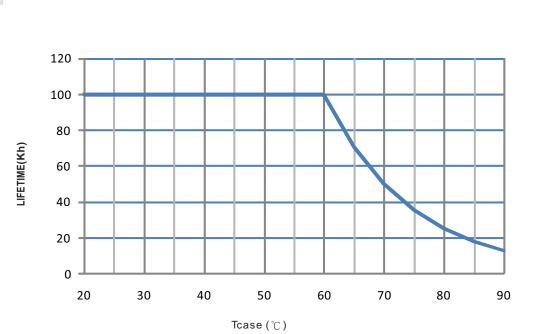
[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



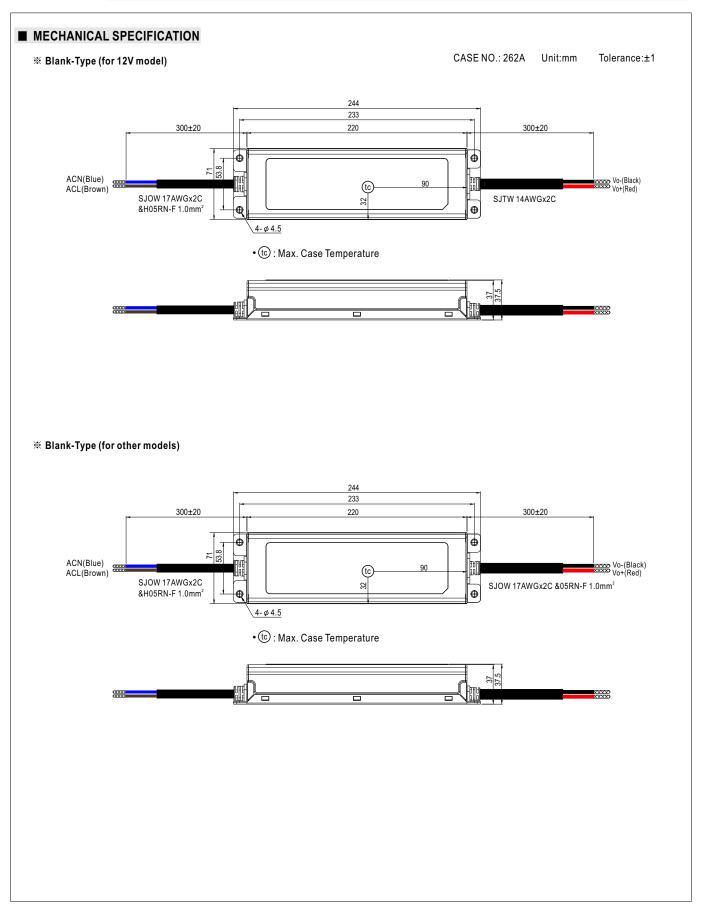




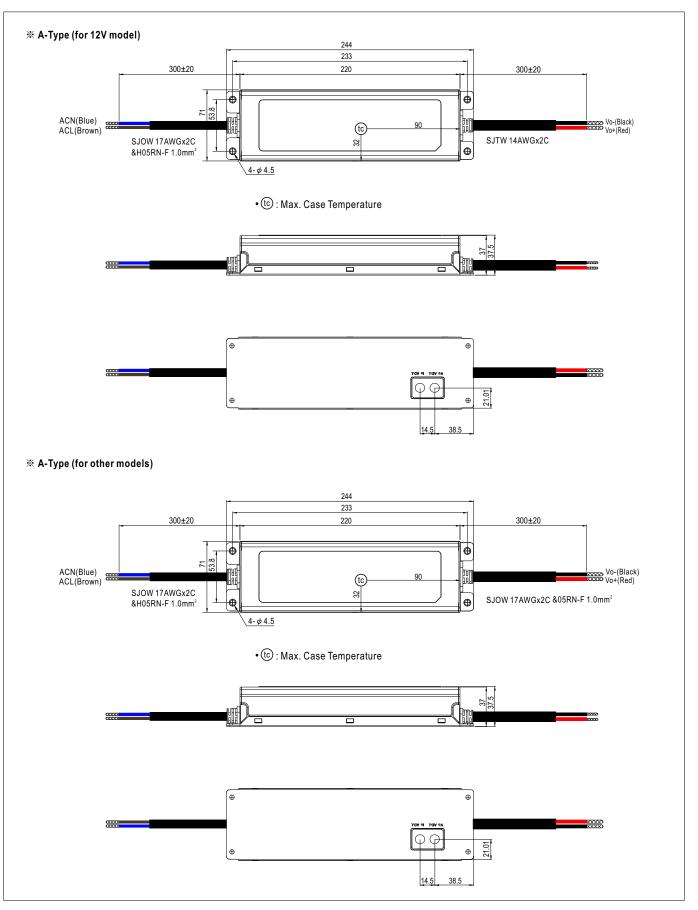
LIFE TIME













※ AB-Type (for 12V model)

