

- · 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

Applications

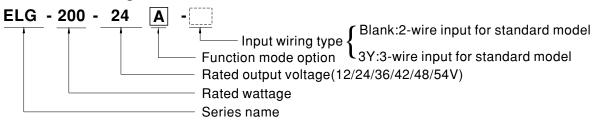
- LED street lighting
- LED architectural lighting
- LED bay lighting
- · LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

EHI@CB (€

■ 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 $100{\sim}305$ 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 $-40\,^{\circ}\mathrm{C} \sim +90\,^{\circ}\mathrm{C}$ 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



Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed.	In Stock
Α	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



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		
	NOTICE TO WELL	100VAC ~ 180VAC							
		144W	150W	149.76W	149.94W	149.76W	150.12W		
	RIPPLE & NOISE (max.) Note.3		200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
	THE LE WHO ICE (Max.) Note.5	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	20 451/	44.0 54.01/	50 ~ 57V		
OUTPUT	CURRENT ADJ. RANGE	-		1	39 ~ 45V	44.8 ~ 51.2V	30 ~ 37 V		
			-Type only (via built-in	·	0.00 4.704	0.00 4.404	4.00 0.704		
	VOLTA OF TOLERANDE	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		±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							
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC							
		<u>'</u>	ATIC CHARACTERIS	ric" section)					
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR			(≥0.92/277VAC@full I HARACTERISTIC" sec					
-	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧50%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)							
INPUT	EFFICIENCY (Typ.)	90%	92%	92%	92.5%	93%	93%		
	AC CURRENT			/277VAC	02.070	0070	0070		
	INRUSH CURRENT(Typ.)				80VAC: Per NFMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	COLD START 60A(twidth=510µs measured at 50% Ipeak) at 230VAC; Per NEMA 410 4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC							
	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	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION	SHOKI CIRCUIT	13.5 ~ 18V	27 ~ 34V	42 ~ 49V	47 ~ 54V	54 ~ 63V			
	VER VOLTAGE						l 60 ~ 67\/		
		Shut down output v	nltage re-nower on t	1 101	47 ~ 54 V	04 000	60 ~ 67V		
	OVER TEMPERATURE		oltage, re-power on t	to recover	47 ~ 34 V	04 000	60 ~ 67V		
	OVER TEMPERATURE	Shut down output v	oltage, re-power on t	o recover		04 000	60 ~ 67V		
	WORKING TEMP.	Shut down output v	oltage, re-power on t	to recover		04 000	60 ~ 67V		
	WORKING TEMP. MAX. CASE TEMP.	Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C	oltage, re-power on t (Please refer to " OUT	o recover		104 000	60~67V		
FNWDONIMENT.	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c	oltage, re-power on t (Please refer to " OUT	o recover		04 000	60~67V		
ENVIRONMENT	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Shut down output N Tcase=-40 \sim +90 $^{\circ}$ C Tcase=+90 $^{\circ}$ C 20 \sim 95% RH non-c -40 \sim +90 $^{\circ}$ C, 10 \sim 9	oltage, re-power on t (Please refer to "OUT ondensing 5% RH	o recover		04 000	60~67V		
ENVIRONMENT	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Shut down output V Tcase=-40 \sim +90 $^{\circ}$ C Tcase=+90 $^{\circ}$ C 20 \sim 95% RH non-c -40 \sim +90 $^{\circ}$ C, 10 \sim 9 \pm 0.03%/ $^{\circ}$ C (0 \sim 50	oltage, re-power on t (Please refer to " OUT ondensing 5% RH	to recover o recover IPUT LOAD vs TEMPE	ERATURE" section)	04 000	60~67V		
ENVIRONMENT	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Shut down output N Tcase=-40 \sim +90°C Tcase=+90°C 20 \sim 95% RH non-c -40 \sim +90°C, 10 \sim 9 \pm 0.03%/°C (0 \sim 50° 10 \sim 500Hz, 5G 12r	oltage, re-power on t (Please refer to " OUT ondensing 5% RH C)	to recover o recover IPUT LOAD vs TEMPE	ERATURE" section) Y, Z axes				
ENVIRONMENT	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12r UL8750(type"HL"),	oltage, re-power on t (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 8 IS15885(for 12/12B/	to recover o recover IPUT LOAD vs TEMPE 72min. each along X, 3-12;IEC/EN/AS/NZS	ERATURE" section)	JZS 61347-2-13 indep	endent, EN62384;		
ENVIRONMENT	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	Shut down output Name Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12r UL8750(type"HL"), EAC TP TC 004;BIS KC61347-1,KC613	oltage, re-power on t (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 8 IS15885(for 12/12B/	To recover o recover TPUT LOAD vs TEMPE 72min. each along X, 3-12;IEC/EN/AS/NZS 24/24B/36/36A/42A/4	ERATURE" section) Y, Z axes 61347-1, IEC/EN/AS/N	JZS 61347-2-13 indep	endent, EN62384;		
	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	Shut down output \(\) Tcase=-40 \(\cdot \) +90 \(\cdot \) Tcase=+90 \(\cdot \) 20 \(\cdot \) 95\(\cdot \) RH non-c-40 \(\cdot \) +90 \(\cdot \), 10 \(\cdot \) 95\(\cdot \) 10 \(\cdot \) 50\(\cdot \) 10 \(\cdot \) 50\(\cdot \) 47.50 (type"HL"), EAC TP TC 004;BIS KC61347-1,KC613 Compiy with IEC62:	oltage, re-power on t (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 8 IS15885(for 12/12B/ 47-2-13 approved	72min. each along X, 3-12;IEC/EN/AS/NZS 24/24B/36/36A/42A/4	ERATURE" section) Y, Z axes 61347-1, IEC/EN/AS/N	JZS 61347-2-13 indep	endent, EN62384;		
SAFETY &	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS	Shut down output \(\) Tcase=-40 \(\cdot \cdot +90\) C \(\cdot C \cdot = +90\) C \(20 \cdot 95\) RH non-c \(-40 \cdot +90\) C, \(10 \cdot 90\) \(10 \cdot 50\) Hz, \(5G \cdot 12\) \(UL8750(type"HL"), \) \(EAC TP TC 004;BIS \) \(KC61347-1,KC613 \) \(Compiy with IEC62\) \(I/P-O/P:3.75KVAC)	oltage, re-power on t (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 6 IS15885(for 12/12B/ 47-2-13 approved 1/P-FG:2.0KVAC	72min. each along X, 3-12;IEC/EN/AS/NZS 24/24B/36/36A/42A/4	ERATURE" section) Y, Z axes 61347-1, IEC/EN/AS/N 8/48A/54A only);GB19	JZS 61347-2-13 indep	endent, EN62384;		
SAFETY &	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Shut down output \(\) Tcase=-40 \(\circ +90\) C \(\circ 20 \circ 95\) RH non-c \(-40 \circ +90\) C, 10 \(\circ 95\) \(\circ 10 \circ 50\) \(10 \circ 50\) Hz, 5G 12r \(\text{UL8750(type"HL")}, \text{EAC TP TC 004;BIS} \) KC61347-1,KC613 \(\circ Compiy with IEC62\) I/P-O/P:3.75KVAC	oltage, re-power on to (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 B IS15885(for 12/12B/ 47-2-13 approved 386-101,102,207 for D I/P-FG:2.0KVAC P-FG:100M Ohms / 5	72min. each along X, 3-12;IEC/EN/AS/NZS 24/24B/36/36A/42A/4	ERATURE" section) Y, Z axes 61347-1, IEC/EN/AS/N 8/48A/54A only);GB19	IZS 61347-2-13 indep 510.14,GB19510.1; IF	endent, EN62384; 165 or IP67;		
SAFETY &	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Shut down output to Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12r UL8750(type"HL"), EAC TP TC 004;BIs KC61347-1,KC613 Compiy with IEC62: I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/C Compliance to EN5	oltage, re-power on t (Please refer to " OUT ondensing 55% RH C) nin./1cycle, period for CSA C22.2 No. 250.1: 8 IS15885(for 12/12B/ 47-2-13 approved 886-101,102,207 for D I/P-FG:2.0KVAC P-FG:100M Ohms / 5 5015,EN61000-3-2 Cla	To recover o recover o recover TPUT LOAD vs TEMPE 72min. each along X, 3-12;IEC/EN/AS/NZS 24/24B/36/36A/42A/4; A-Type only O/P-FG:1.5KVAC 600VDC / 25°C / 70% F ass C (@load ≥ 50%); I	ERATURE" section) Y, Z axes 61347-1, IEC/EN/AS/N 8/48A/54A only); GB19 RH EN61000-3-3; GB17625.	NZS 61347-2-13 indep 510.14,GB19510.1; IF 1,GB17743;EAC TP TC	endent, EN62384; 65 or IP67;		
SAFETY &	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	Shut down output to Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12r UL8750(type"HL"), EAC TP TC 004;BIs KC61347-1,KC613 Compiy with IEC62: I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/ Compliance to EN5100	oltage, re-power on t (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.1; S IS15885(for 12/12B/ 47-2-13 approved 386-101,102,207 for D I/P-FG:2.0KVAC P-FG:100M Ohms / 5 5015,EN61000-3-2 Cia 0-4-2,3,4,5,6,8,11; EN615	To recover o recover o recover TPUT LOAD vs TEMPE 72min. each along X, 3-12;IEC/EN/AS/NZS 24/24B/36/36A/42A/4 A-Type only O/P-FG:1.5KVAC 600VDC / 25°C / 70% F ass C (@load ≥ 50%); E 47, light industry level (sur	PRATURE" section) Y, Z axes 61347-1, IEC/EN/AS/N 8/48A/54A only); GB19 RH EN61000-3-3; GB17625. ge immunity Line-Earth 6K	IZS 61347-2-13 indep 510.14,GB19510.1; IF 1,GB17743;EAC TP TC V, Line-Line 4KV);EAC TP	endent, EN62384; 65 or IP67;		
SAFETY & EMC	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF	Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12I UL8750(type"HL"), EAC TP TC 004;BIS KC61347-1,KC613 Compiy with IEC62: I/P-O/P;3.75KVAC I/P-O/P, I/P-FG, O, Compliance to EN5100 826.7K hrs min.	oltage, re-power on t (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.1: 6 IS15885(for 12/12B/ 47-2-13 approved 886-101,102,207 for D I/P-FG:2.0KVAC P-FG:100M Ohms / 5 5015,EN61000-3-2 Cla 0-4-2,3,4,5,6,8,11; EN615 Telcordia SR-332 (Bel	To recover o recover o recover TPUT LOAD vs TEMPE 72min. each along X, 3-12;IEC/EN/AS/NZS 24/24B/36/36A/42A/4; A-Type only O/P-FG:1.5KVAC 600VDC / 25°C / 70% F ass C (@load ≥ 50%); I	PRATURE" section) Y, Z axes 61347-1, IEC/EN/AS/N 8/48A/54A only); GB19 RH EN61000-3-3; GB17625. ge immunity Line-Earth 6K	IZS 61347-2-13 indep 510.14,GB19510.1; IF 1,GB17743;EAC TP TC V, Line-Line 4KV);EAC TP	endent, EN62384; 65 or IP67;		
	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	Shut down output to Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50° 10 ~ 500Hz, 5G 12r UL8750(type"HL"), EAC TP TC 004;BIs KC61347-1,KC613 Compiy with IEC62: I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/ Compliance to EN5100	oltage, re-power on t (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.1: 6 IS15885(for 12/12B/ 47-2-13 approved 866-101,102,207 for D I/P-FG:2.0KVAC P-FG:100M Ohms / 5 5015,EN61000-3-2 Cla 0-4-2,3,4,5,6,8,11; EN615 Telcordia SR-332 (Bel W*H)	To recover o recover o recover TPUT LOAD vs TEMPE 72min. each along X, 3-12;IEC/EN/AS/NZS 24/24B/36/36A/42A/4 A-Type only O/P-FG:1.5KVAC 600VDC / 25°C / 70% F ass C (@load ≥ 50%); E 47, light industry level (sur	PRATURE" section) Y, Z axes 61347-1, IEC/EN/AS/N 8/48A/54A only); GB19 RH EN61000-3-3; GB17625. ge immunity Line-Earth 6K	IZS 61347-2-13 indep 510.14,GB19510.1; IF 1,GB17743;EAC TP TC V, Line-Line 4KV);EAC TP	endent, EN62384; 65 or IP67;		

NOTE

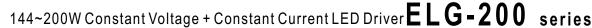
- 2. Please refer to "DRIVING METHODS OF LED MODULE".
- 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 4. Tolerance: includes set up tolerance, line regulation and load regulation.
- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 6. 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.
- 7. No load/standby power consumption is specified for 230VAC input.
- 8. 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.

 9. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly to point (or TMP, per DLC), is 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 2000m(6500ft). 12.For any application note and IP water proof function installation caution, please refer our user manual before using.

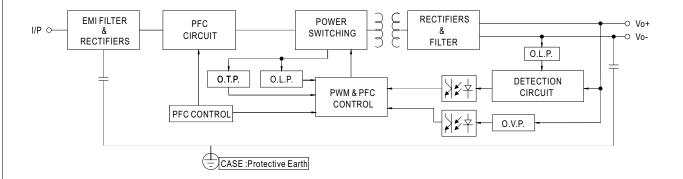
https://www.meanwell.com/Upload/PDF/LED_EN.pdf Downloaded from Arrow.com





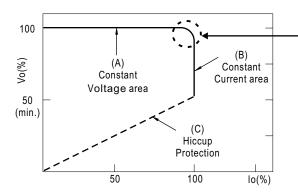
■ Block Diagram

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or 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.

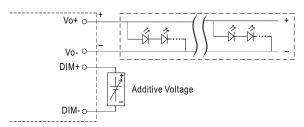


■ DIMMING OPERATION



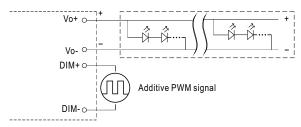
※ 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: $0 \sim 10 \text{VDC}$, or 10 V 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: $100\mu A$ (typ.)
- O Applying additive 0 ~ 10VDC



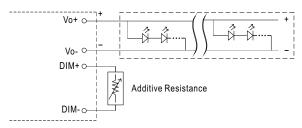
"DO NOT connect "DIM- to Vo-"

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



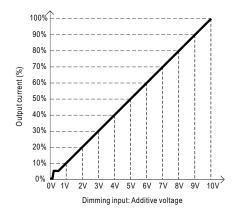
"DO NOT connect "DIM- to Vo-"

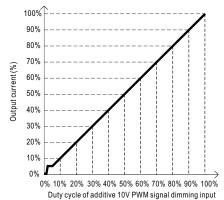
Applying additive resistance:

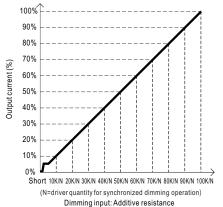


"DO NOT connect "DIM- to Vo-"









Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

2. The output current could drop down to 0% when dimming input is about 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.



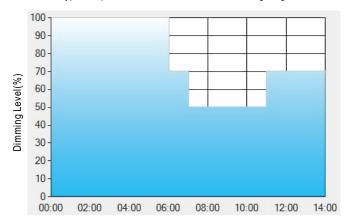
DALI Interface (primary side; for DA-Type)

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

X 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:

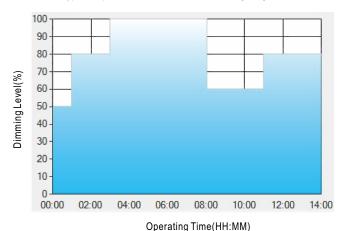
	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

- **: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
 - $\textbf{Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance: a supply at 6:00$
- [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



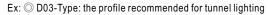
Set up for D02-Type in Smart timer dimming software program:

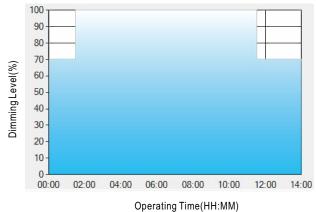
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

**: 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.

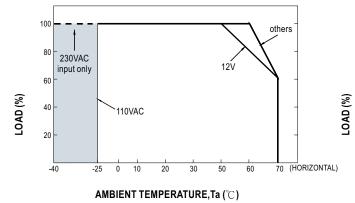
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

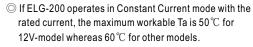
- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00 am, which is 11:00 after the power supply turns on.

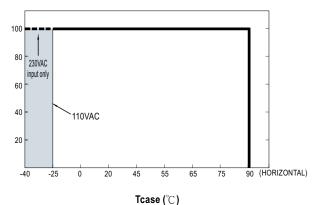
The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



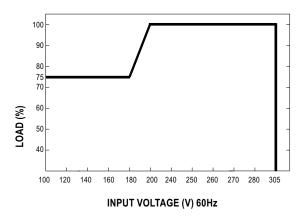
■ OUTPUT LOAD vs TEMPERATURE(Note.10)







■ STATIC CHARACTERISTIC

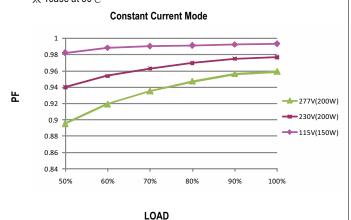


* De-rating is needed under low input voltage.

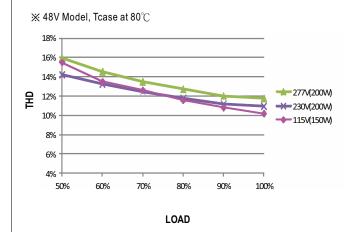
■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 80°

C

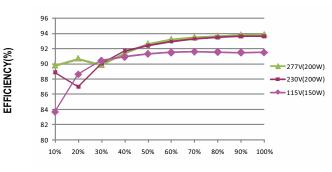


■ TOTAL HARMONIC DISTORTION (THD)



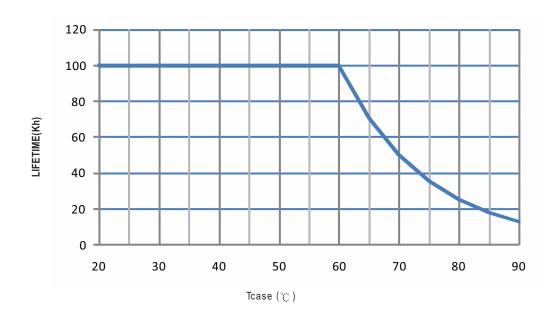
■ EFFICIENCY vs LOAD

ELG-200 series possess superior working efficiency that up to 93% can be reached in field applications.

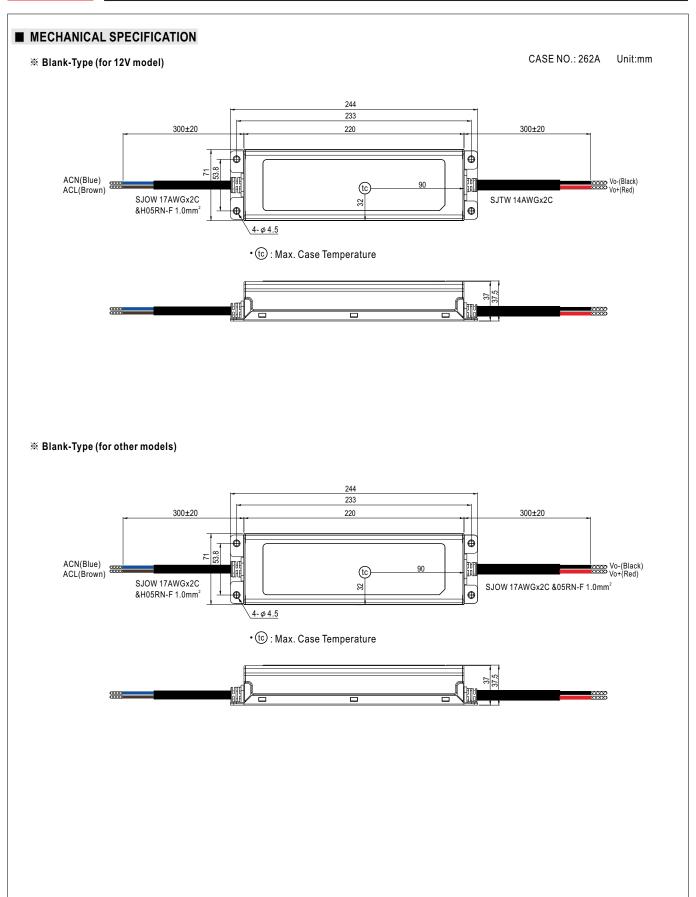


LOAD

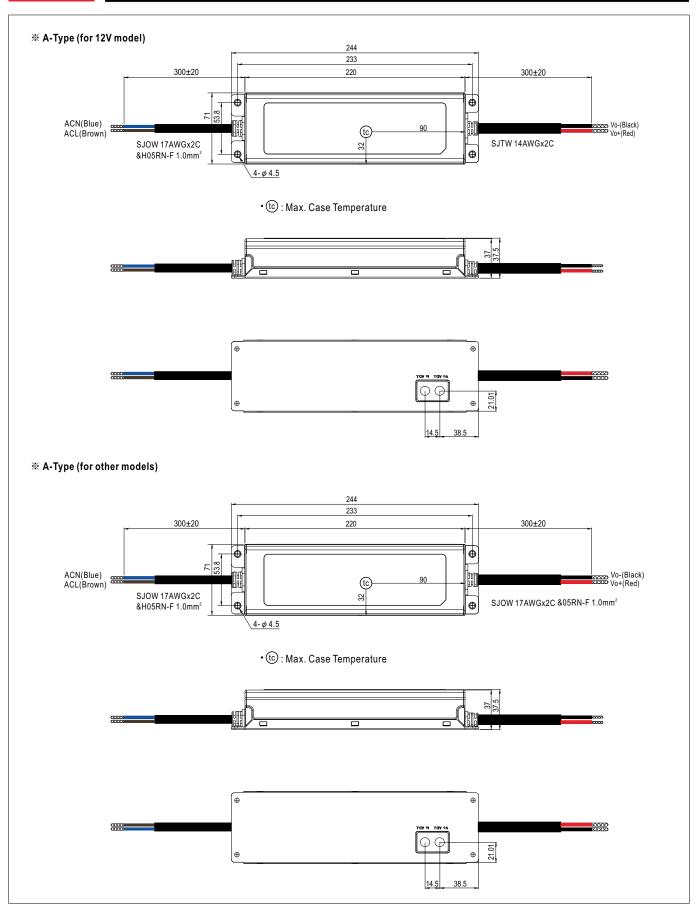
■ LIFE TIME



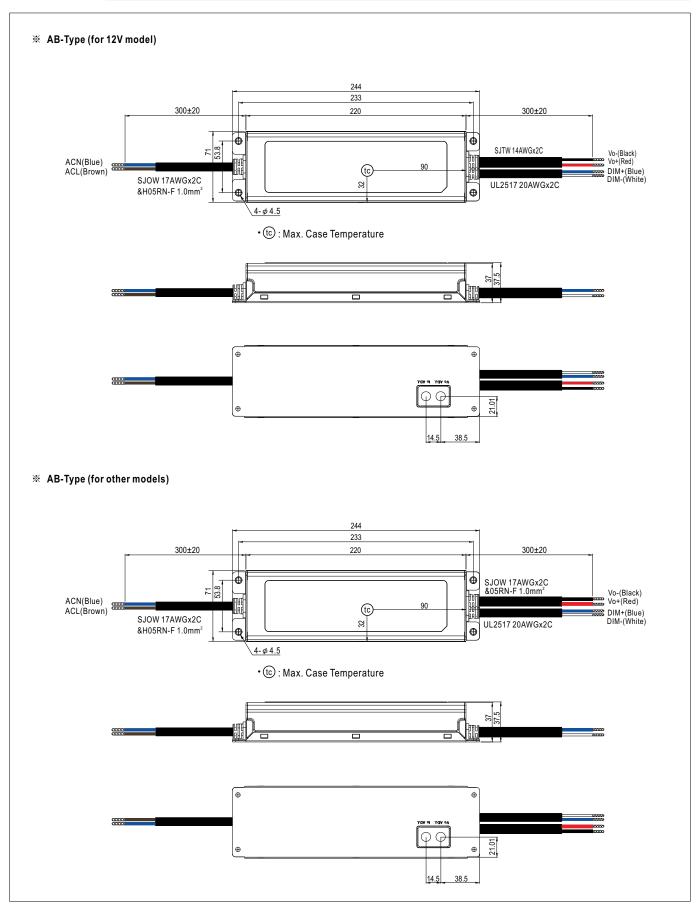






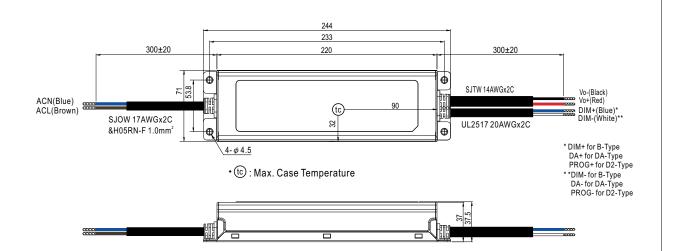




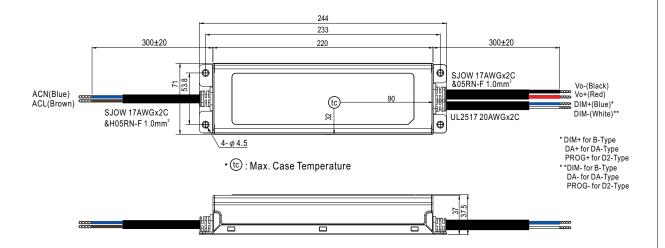




※ B/DA/D2-Type (for 12V model)



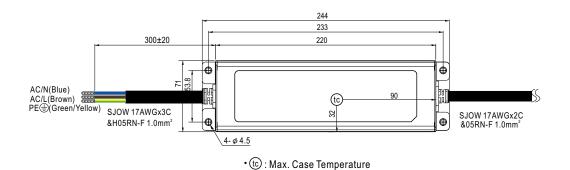
※ B/DA/D2-Type (for other models)



File Name:ELG-200-SPEC 2018-09-30



※ 3Y Model (3-wire input)



- O Note2: Please contact MEAN WELL for input wiring option with PE.

O Note1: Please connect the case to PE for the complete EMC deliverance and safety use.

■ INSTALLATION MANUAL

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