







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

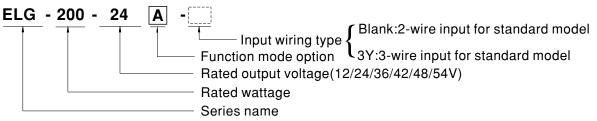
Applications

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

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 °C ~ +90 °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	lo 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

		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		
İ	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							
	DATED DOWED	192W	201.6W	199.8W	199.9W	199.68W	200.88W		
	RATED POWER	100VAC ~ 180VAC	201.011	100.011	100.011	100.0011	200.0011		
			45014	440.7014	440.04141	440.7014	450 4014/		
		144W	150W	149.76W	149.94W	149.76W	150.12W		
	RIPPLE & NOISE (max.) Note.3								
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer)							
NITDUT		11.2 ~ 12.8V	22.4 ~ 25.6V	33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V		
DUTPUT	OURDENT AR L RANGE	Adjustable for A/AB-	Type only (via built-in	potentiometer)					
	CURRENT ADJ. 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		1		±0.570	20.070	20.070		
-	,	500ms, 100ms/230VAC, 1000ms, 100ms/115VAC 10ms/ 230VAC 10ms/ 115VAC							
	HOLD UP TIME (Typ.)								
	VOLTAGE RANGE Note.5		142 ~ 431VDC	TIO!! !! \					
		(Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR		PF≧0.95/230VAC, PF						
		(Please refer to "PO)	WER FACTOR (PF) CH	HARACTERISTIC" sec	tion)				
	TOTAL HARMONIC DISTORTION	THD<20%(@load≧50%/115VC,230VAC; @load≧75%/277VAC)							
	TOTAL HARMONIC DISTORTION	(Please refer to "TC	TAL HARMONIC DIS	STORTION(THD)" se	ction)				
NPUT	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(width=510us measure	ed at 50% Ipeak) at 23	30VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A	,	•						
	CIRCUIT BREAKER	4 units (circuit brea	ker of type B) / 6 units	(circuit breaker of type	oe 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	7 Standby power consumption <0.5W for B / AB / DA-Type							
	OVER CURRENT	95 ~ 108%							
(OVER CORRENT	Constant current lim	niting, recovers autom	atically after fault con-	dition is removed				
		Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed							
	SHORT CIRCUIT	Hiccup mode, recov			47 ~ 54V	54 ~ 63V	00 071/		
ROTECTION		13.5 ~ 18V	27 ~ 34V	42 ~ 49V	41~340		60 ~ 67V		
ROTECTION	SHORT CIRCUIT OVER VOLTAGE	13.5 ~ 18V	27 ~ 34V oltage, re-power on t		41~540	10. 20.	60 ~ 67V		
		13.5 ~ 18V Shut down output v	oltage, re-power on t	o recover	47 ~ 54 V	111111111	60 ~ 67 V		
	OVER VOLTAGE OVER TEMPERATURE	13.5 ~ 18V Shut down output v Shut down output v	oltage, re-power on to oltage, re-power on to	o recover			60~670		
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP.	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C	oltage, re-power on t	o recover			60~67V		
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP.	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C	oltage, re-power on to oltage, re-power on to (Please refer to "OUT	o recover			60~67V		
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-co	oltage, re-power on tooltage, re-power on tooltage, re-power on tooltage, refer to "OUT ondensing	o recover			60~67V		
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +90°C, 10 ~ 99	oltage, re-power on to oltage, re-power on to oltage, re-power on to (Please refer to " OUT ondensing 5% RH	o recover			60~67V		
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +90°C, 10 ~ 99 ±0.03%/°C (0 ~ 50°C	oltage, re-power on to	o recover o recover PUT LOAD vs TEMPI	ERATURE" section)		60~67V		
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90 °C Tcase=+90 °C 20 ~ 95% RH non-co -40 ~ +90 °C, 10 ~ 99 ±0.03%/ °C (0 ~ 50 °C 10 ~ 500Hz, 5G 12n	oltage, re-power on tooltage, re-power on tooltage, re-power on to (Please refer to "OUT ondensing 5% RH	o recover o recover PUT LOAD vs TEMPI 72min. each along X,	ERATURE" section) Y, Z axes				
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C 20 ~ 95% RH non-co -40 ~ +90°C, 10 ~ 99 $\pm 0.03\%$ °C (0 ~ 50°C 10 ~ 500Hz, 5G 12n UL8750(type"HL"), 0	oltage, re-power on to oltage, re-power of oltage olt	o recover pur LOAD vs TEMPI 72min. each along X,	ERATURE" section) Y, Z axes //NZS 61347-1, IEC/BS	EN/EN/AS/NZS 6134	7-2-13 independent,		
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90 °C 20 ~ 95% RH non-co -40 ~ +90 °C, 10 ~ 99 ±0.03%/°C (0 ~ 50 °C 10 ~ 500Hz, 5G 12n UL8750(type"HL"), 0 BS EN/EN62384; E/	oltage, re-power on to oltage, re-power on to oltage, re-power on to (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13	o recover precover 7PUT LOAD vs TEMPI 72min. each along X, 12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/	ERATURE" section) Y, Z axes /NZS 61347-1, IEC/BS	EN/EN/AS/NZS 6134	7-2-13 independent,		
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C 20 ~ 95% RH non-co -40 ~ +90°C, 10 ~ 99 ±0.03%/°C (0 ~ 50°C 10 ~ 500Hz, 5G 12n UL8750(type"HL"), (0 BS EN/EN62384; E/only); GB19510.14, (1	oltage, re-power on to oltage, re-power of oltage olt	o recover pur LOAD vs TEMPI 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/-67;KC61347-1,KC613	ERATURE" section) Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D/ 47-2-13 approved	EN/EN/AS/NZS 6134	7-2-13 independent,		
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	13.5 \sim 18V Shut down output v Shut down output v Tcase= $-40 \sim +90^{\circ}$ C $20 \sim 95\%$ RH non-co $-40 \sim +90^{\circ}$ C, $10 \sim 99$ $\pm 0.03\%$ /°C ($0 \sim 50^{\circ}$ C) $10 \sim 500$ Hz, $5G$ 12n UL8750(type"HL"), (0 BS EN/EN62384; E/only); GB19510.14, (0	oltage, re-power on to oltage, re-power of oltage olt	o recover pur LOAD vs TEMPI 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/ 67;KC61347-1,KC613	ERATURE" section) Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D/ 47-2-13 approved	EN/EN/AS/NZS 6134	7-2-13 independent,		
NVIRONMENT	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	13.5 \sim 18V Shut down output v Shut down output v Tcase= $-40 \sim +90^{\circ}$ C $20 \sim 95\%$ RH non-co $-40 \sim +90^{\circ}$ C, $10 \sim 99$ $\pm 0.03\%$ /°C ($0 \sim 50^{\circ}$ C) $10 \sim 500$ Hz, $5G$ 12n UL8750(type"HL"), (0 BS EN/EN62384; E/only); GB19510.14, (0	oltage, re-power on to oltage, re-power of oltage olt	o recover pur LOAD vs TEMPI 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/ 67;KC61347-1,KC613	ERATURE" section) Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D/ 47-2-13 approved	EN/EN/AS/NZS 6134	7-2-13 independent,		
NVIRONMENT	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C 20 ~ 95% RH non-co -40 ~ +90°C, 10 ~ 50°C 10 ~ 500Hz, 5G 12n UL8750(type"HL"), (BS EN/EN62384; E ₂ only); GB19510.14, (Compliance to IEC I/P-O/P:3.75KVAC	oltage, re-power on to oltage, re-power of oltage olt	o recover precover 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/- 67;KC61347-1,KC613 by request) for DA Ty O/P-FG:1.5KVAC	PRATURE" section) Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D/ 47-2-13 approved //pe only	EN/EN/AS/NZS 6134	7-2-13 independent,		
INVIRONMENT	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +90°C, 10 ~ 90 ±0.03%/°C (0 ~ 50°C 10 ~ 500Hz, 5G 12n UL8750(type"HL"), 0 BS EN/EN62384; E/ only); GB19510.14, 0 Compliance to IEC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/	oltage, re-power on to oltage, re-power of the oltage oltage of the oltage	o recover pur LOAD vs TEMPI 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/- 67;KC61347-1,KC613 by request) for DA Ty O/P-FG:1.5KVAC	PRATURE" section) Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D/ 47-2-13 approved //pe only	EN/EN/AS/NZS 61347 A/36/36A/36B/42A/42E	7-2-13 independent, 1/48/48A/48B/54A/5		
NVIRONMENT	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C 20 ~ 95% RH non-co -40 ~ +90°C, 10 ~ 99 ±0.03%/°C (0 ~ 50°C 10 ~ 500Hz, 5G 12n UL8750(type"HL"), (0 BS EN/EN62384; E/ only); GB19510.14, (Compliance to IEC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/ Compliance to BS EAC TP TC 020; KC Compliance to BS EAC TP TC 020; KC	oltage, re-power on to oltage, re-power on to (Please refer to "OUT ondensing 5% RH C) onin./1cycle, period for CSA C22.2 No. 250.13-AC TP TC 004;BIS ISI 3B19510.1; IP65 or IP662386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 N/EN55015,BS EN/EI KN15,KN61547	o recover precover 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/- 67;KC61347-1,KC613 by request) for DA T, O/P-FG:1.5KVAC 00VDC / 25°C / 70% F N61000-3-2 Class C	ERATURE" section) Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D/ 47-2-13 approved //pe only	EN/EN/AS/NZS 6134: A/36/36A/36B/42A/42E I/ EN61000-3-3;GB/T	7-2-13 independent, 1/48/48A/48B/54A/5 17743,GB17625.1;		
NVIRONMENT	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C 20 ~ 95% RH non-co -40 ~ +90°C, 10 ~ 99 ±0.03%/°C (0 ~ 50°C 10 ~ 500Hz, 5G 12n UL8750(type"HL"), (0 BS EN/EN62384; E/ only); GB19510.14, (Compliance to IEC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/ Compliance to BS EAC TP TC 020; KC Compliance to BS EAC TP TC 020; KC	oltage, re-power on to oltage, re-power of oltage of the oltage of the oltage of the oltage oltage of the oltage o	72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/- 67;KC61347-1,KC613 by request) for DA Ty 0/P-FG:1.5KVAC 00VDC / 25°C / 70% F N61000-3-2 Class C	PRATURE" section) Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D/ 47-2-13 approved //pe only RH (@load ≥ 50%) ;BS EN 547, light industry leve	EN/EN/AS/NZS 6134: A/36/36A/36B/42A/42E I/ EN61000-3-3;GB/T I (surge immunity Line	7-2-13 independent, 1/48/48A/48B/54A/5 17743,GB17625.1;		
NVIRONMENT BAFETY &	OVER VOLTAGE OVER TEMPERATURE 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	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C 20 ~ 95% RH non-co -40 ~ +90°C, 10 ~ 50°C 10 ~ 500Hz, 5G 12n UL8750(type"HL"), (BS EN/EN62384; E/only); GB19510.14,(Compliance to IEC I/P-O/P; 3.75KVAC I/P-O/P, I/P-FG, O/Compliance to BS EAC TP TC 020; KC Compliance to BS EIne-Line 4KV); EAC	oltage, re-power on to oltage, re-power on to oltage, re-power on to (Please refer to "OUT ondensing 5% RH c) ondensing 5% RH	72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/- 67;KC61347-1,KC613 by request) for DA Ty 0/P-FG:1.5KVAC 00VDC / 25°C / 70% F N61000-3-2 Class C	PRATURE" section) Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D/ 47-2-13 approved //pe only RH (@load ≥ 50%) ;BS EN 547, light industry leve	EN/EN/AS/NZS 6134: A/36/36A/36B/42A/42E I/ EN61000-3-3;GB/T I (surge immunity Line	7-2-13 independent, 1/48/48A/48B/54A/54 17743,GB17625.1;		
	OVER VOLTAGE OVER TEMPERATURE 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	13.5 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +90°C, 10 ~ 50°C 10 ~ 500Hz, 5G 12n UL8750(type"HL"), (BS EN/EN62384; E/ only); GB19510.14,(Compliance to IEC I/P-O/P, I/P-FG, O/ Compliance to BS EAC TP TC 020; KC Compliance to BS EAC TP TC 020; KC Compliance to BS EIne-Line 4KV); EAC 2391.4K hrs min.	oltage, re-power on to oltage, re-power on to oltage, re-power on to (Please refer to "OUT ondensing 5% RH c) ondensing 5% RH	72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/- 67;KC61347-1,KC613 by request) for DA Ty 0/P-FG:1.5KVAC 00VDC / 25°C / 70% F N61000-3-2 Class C	PRATURE" section) Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D/ 47-2-13 approved //pe only RH (@load ≥ 50%) ;BS EN 547, light industry leve	EN/EN/AS/NZS 6134: A/36/36A/36B/42A/42E I/ EN61000-3-3;GB/T I (surge immunity Line	7-2-13 independen 1/48/48A/48B/54A/3 17743,GB17625.1		

- 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.

 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

 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

 13. BIS IS18885(for 12/12A/12B/12DA/24/24A/24B)/24DA/36/36A/36B/42A/42B/84/48A/48B/54A/54B).

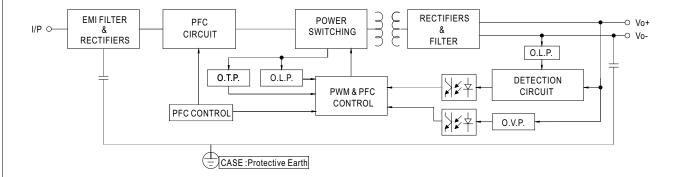
 14. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently

- 14. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.

 15. For A/AB type need to consider build in using to comply with Type HL application.
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

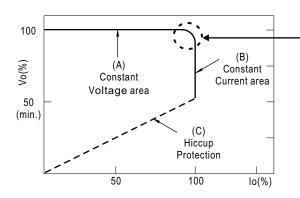
■ Block Diagram

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.

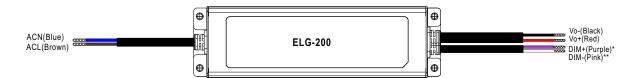


Typical output current normalized by rated current (%)

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

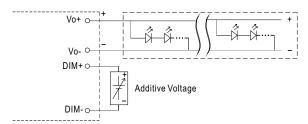
Should there be any compatibility issues, please contact MEAN WELL.

■ DIMMING OPERATION



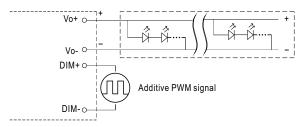
※ 3 in 1 dimming function (for B/AB-Type)

- 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: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



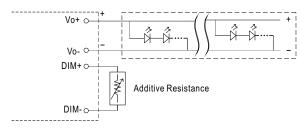
"DO NOT connect "DIM- to Vo-"

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



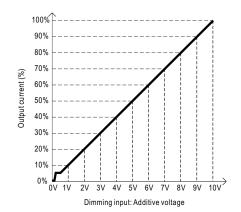
"DO NOT connect "DIM- to Vo-"

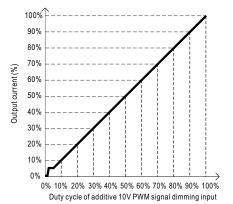
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"







100%
90%
80%
60%
60%
20%
10%
Short 10K/N 20K/N 30K/N 40K/N 50K/N 50K/N 70K/N 80K/N 90K/N 100K/N
(N=driver quantity for synchronized dimming operation)
Dimming input: Additive resistance

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

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



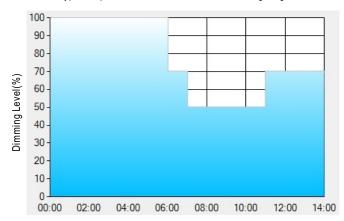
DALI Interface (primary side; for DA-Type)

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

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%

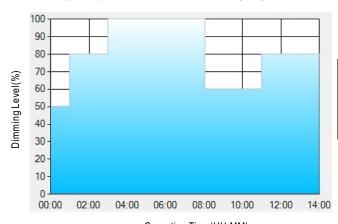
Operating Time(HH:MM)

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

 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



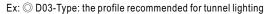
Set up for D02-Type in Smart timer dimming software program:

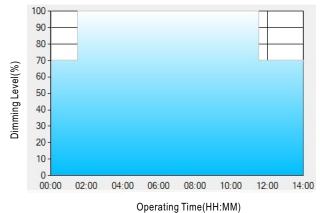
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

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.

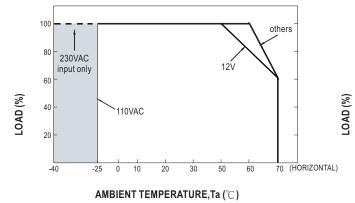
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

- [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.

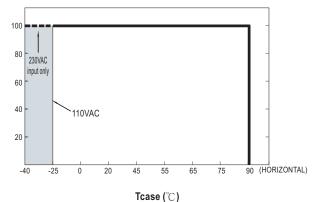
The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



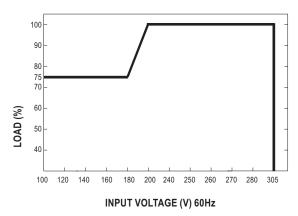
■ OUTPUT LOAD vs TEMPERATURE(Note.10)



⊚ If ELG-200 operates in Constant Current mode with the rated current, the maximum workable Ta is $50\,^{\circ}$ C for 12V-model whereas $60\,^{\circ}$ C for other models.



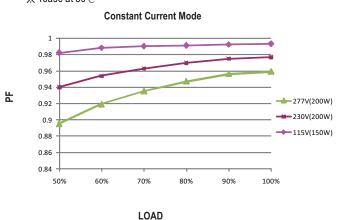
■ STATIC CHARACTERISTIC



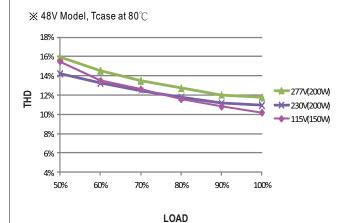
※ De-rating is needed under low input voltage.

■ POWER FACTOR (PF) CHARACTERISTIC

★ Tcase at 80°



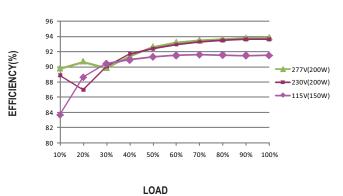
■ TOTAL HARMONIC DISTORTION (THD)



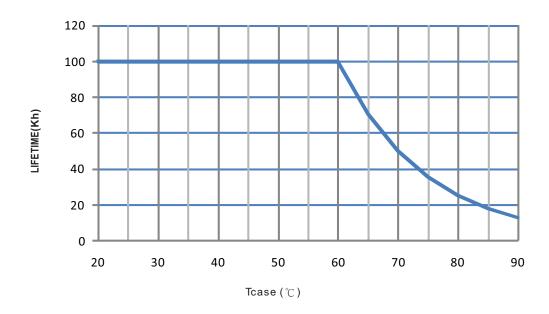
■ EFFICIENCY vs LOAD

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

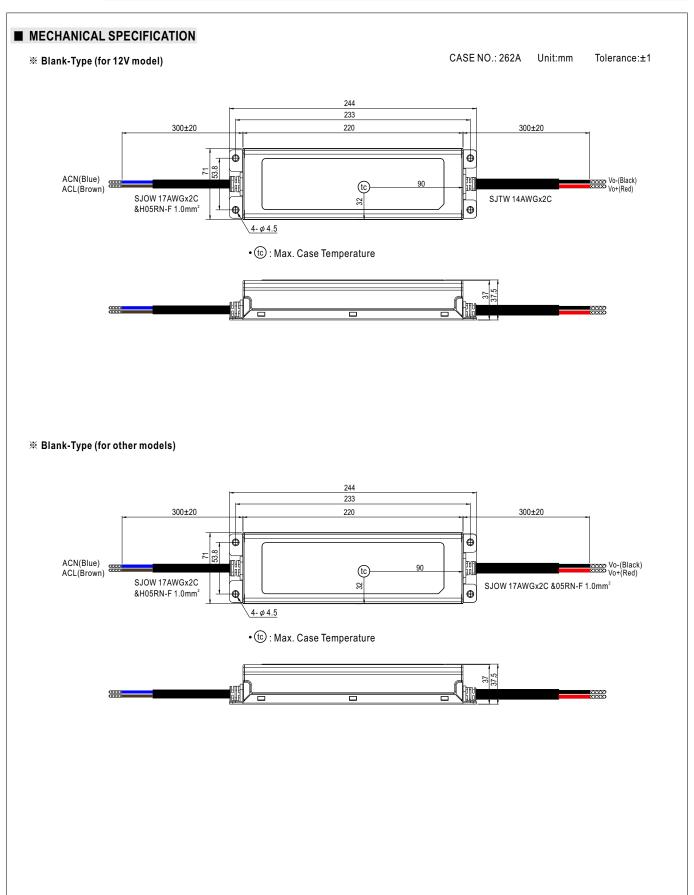
ightarrow 48V Model, Tcase at 80 $^{\circ}\mathrm{C}$



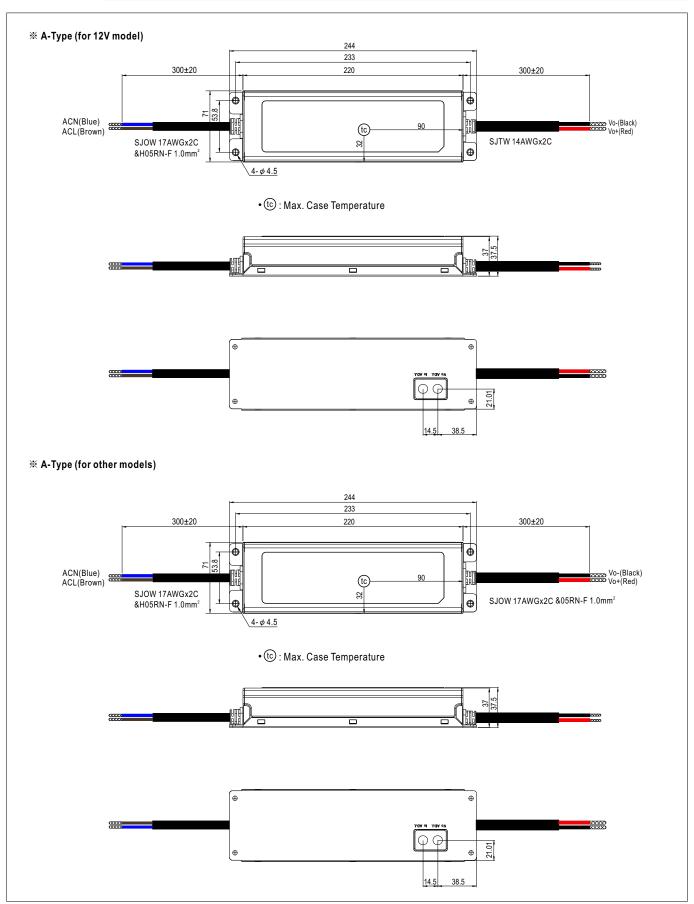
■ LIFE TIME



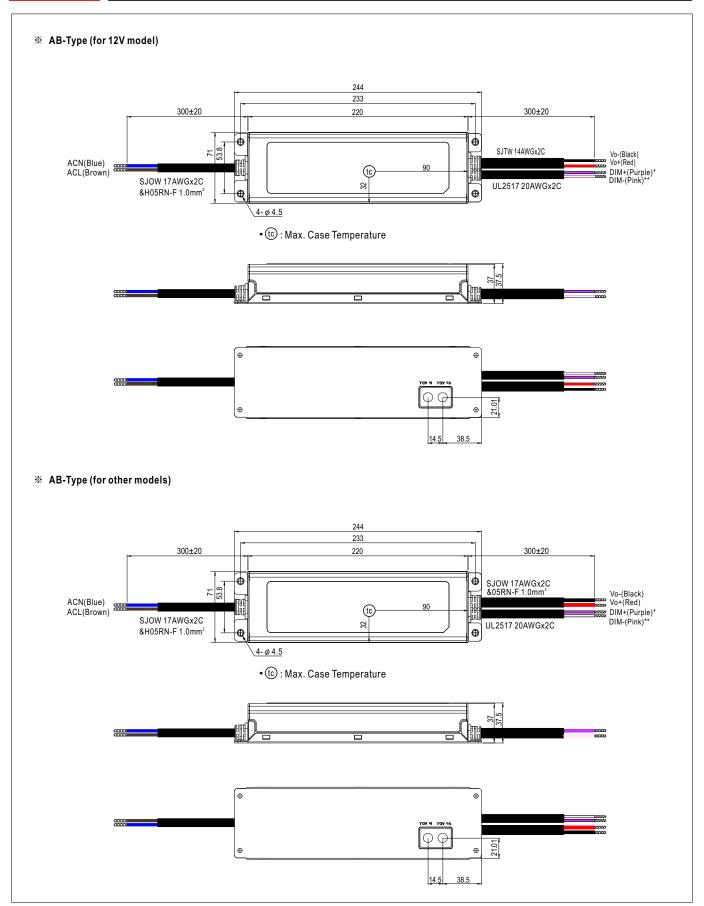






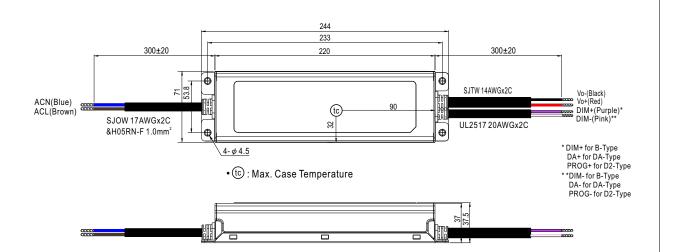




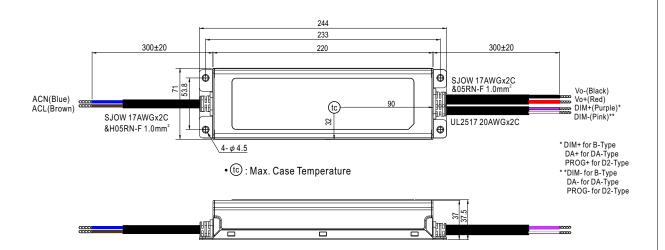




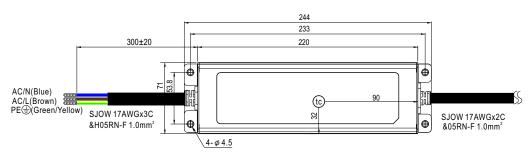
※ B/DA/D2-Type (for 12V model)



※ B/DA/D2-Type (for other models)



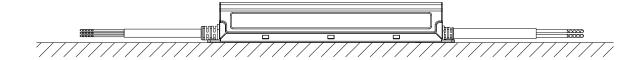
※ 3Y Model (3-wire input)



• tc : Max. Case Temperature

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

■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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