





















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.

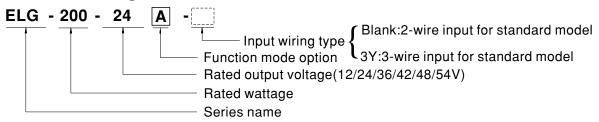
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

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	
	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						
		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						
DUTPUT		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		±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	
				±0.5%		±0.5%	±0.5%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±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 10m						
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC						
		(Please refer to "STATIC CHARACTERISTIC" Section)						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR		PF≥0.95/230VAC, PF					
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧50%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
		(Please refer to "10			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(twidth=510µs measure	ed at 50% Ipeak) at 23	0VAC; Per NEMA 410			
	MAX. No. of PSUs on 16A	Aita /ainait b.u.a	lean of terms D) / C comits	/-iit b	(0) -+ 0001/4(0			
	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	No load power cons	umption <0.5W for Bla	ank / A / Dx / D-Type				
	POWER CONSUMPTION Note.7	No load power consumption <0.5W for Blank / A / Dx / D-Type Standby power consumption <0.5W for B / AB / DA-Type						
		95 ~ 108%						
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed						
	SHODT CIDCUIT	Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed						
ROTECTION	SHORT CIRCUIT	· '	27 ~ 34V	42 ~ 49V	47 ~ 54V	F4 C2V	60 - 67\/	
KOILCIION	OVER VOLTAGE	13.5 ~ 18V		1	41 ~ 54 V	54 ~ 63V	60 ~ 67V	
		Shut down output voltage, re-power on to recover						
	OVER TEMPERATURE	Shut down output v	oltage, re-power on to	o recover				
	WORKING TEMP.	Shut down output v Tcase=-40 ~ +90°C		o recover	ERATURE" section)			
		Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C	oltage, re-power on to (Please refer to " OUT	o recover	ERATURE" section)			
	WORKING TEMP.	Shut down output v Tcase=-40 ~ +90°C	oltage, re-power on to (Please refer to " OUT	o recover	ERATURE" section)			
NVIRONMENT	WORKING TEMP. MAX. CASE TEMP.	Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C	oltage, re-power on to (Please refer to " OUT ondensing	o recover	ERATURE" section)			
NVIRONMENT	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 to (Please refer to " OUT ondensing 5% RH	o recover	ERATURE" section)			
ENVIRONMENT	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	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 to (Please refer to " OUT ondensing 5% RH	o recover PUT LOAD vs TEMPI	· ·			
NVIRONMENT	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 $^{\circ}$ 10 \sim 500Hz, 5G 12r	oltage, re-power on to (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for	o recover PUT LOAD vs TEMPI 72min. each along X,	Y, Z axes	EN/EN/AS/NZS 6134	7-2-13 independent.	
NVIRONMENT	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 $^{\circ}$ 10 \sim 500Hz, 5G 12r UL8750(type"HL"), $^{\circ}$ 0	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 PUT LOAD vs TEMPI 72min. each along X, -12;IEC/BS EN/EN/AS	Y, Z axes /NZS 61347-1, IEC/BS	EN/EN/AS/NZS 6134 A/36/36A/36B/42A/42E	•	
NVIRONMENT	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	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 °C 10 ~ 500Hz, 5G 12r UL8750(type"HL"), 0 BS EN/EN62384; E.	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 TPUT LOAD vs TEMPI 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/	Y, Z axes /NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D		•	
NVIRONMENT	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	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 $^{\circ}$ 10 \sim 500Hz, 5G 12r UL8750(type"HL"), 0 BS EN/EN62384; E, only); GB19510.14,	oltage, re-power on to (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 AC TP TC 004;BIS IS1	o recover PUT LOAD vs TEMPI 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/ 67;KC61347-1,KC613	Y, Z axes /NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D. 47-2-13 approved		•	
	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	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 °C 10 ~ 500Hz, 5G 12r UL8750(type"HL"), (BS EN/EN62384; Elonly); GB19510.14, Compliance to IEC	oltage, re-power on to (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13- AC TP TC 004;BIS IS1 GB19510.1; IP65 or IP	o recover PUT LOAD vs TEMPI 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/-67;KC61347-1,KC613	Y, Z axes /NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D. 47-2-13 approved		•	
AFETY &	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE	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 °d 10 ~ 500Hz, 5G 12r UL8750(type"HL"), (BS EN/EN62384; E, only); GB19510.14, Compliance to IEC 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 AC TP TC 004;BIS IS1 GB19510.1; IP65 or IP 62386-101,102,(207 I/P-FG:2.0KVAC	o recover PUT 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	Y, Z axes /NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D 47-2-13 approved /pe only		•	
SAFETY &	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS	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 °d 10 ~ 500Hz, 5G 12r UL8750(type"HL"), (BS EN/EN62384; E, only); GB19510.14, Compliance to IEC 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 AC TP TC 004;BIS IS1 GB19510.1; IP65 or IP 62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5	o recover TPUT 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	Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D/ 47-2-13 approved //pe only	A/36/36A/36B/42A/42E	8/48/48A/48B/54A/5	
SAFETY &	WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE	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 °d 10 ~ 500Hz, 5G 12r UL8750(type"HL"), (BS EN/EN62384; E, only); GB19510.14, Compliance to IEC 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- AC TP TC 004;BIS IS1 GB19510.1; IP65 or IP1 62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 EN/EN55015,BS EN/EI	o recover TPUT 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	Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D/ 47-2-13 approved //pe only		8/48/48A/48B/54A/5	
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 v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +90°C, 10 ~ 9 ±0.03%/°C (0 ~ 50°d 10 ~ 500Hz, 5G 12r 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/C Compliance to BS EAC TP TC 020; KC Compliance to BS EAC TP TC 020; KC	oltage, re-power on to (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13- AC TP TC 004;BIS IS1 GB19510.1; IP65 or IP1 62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 EN/EN55015,BS EN/EI EN/EN561000-4-2,3,4,5	72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/- 67;KC61347-1,KC613 by request) for DA T, 0/P-FG:1.5KVAC 00VDC / 25°C / 70% F N61000-3-2 Class C	Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D, 47-2-13 approved //pe only RH @load ≥ 50%);BS EN	A/36/36A/36B/42A/42E	625.1,GB17743;	
ENVIRONMENT 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	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"), (BS EN/EN62384; E, only); GB19510.14, (Compliance to IEC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/C Compliance to BS EAC TP TC 020; KC Compliance to BS EIC ELine-Line 4KV); EAC	oltage, re-power on to (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13- AC TP TC 004;BIS IS1 GB19510.1; IP65 or IP1 62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 IN/EN55015,BS EN/EI E KN15,KN61547	o recover TPUT 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 00VDC / 25°C / 70% F N61000-3-2 Class C	Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D. 47-2-13 approved //pe only RH @load ≥ 50%) ;BS EN	A/36/36A/36B/42A/42E A/ EN61000-3-3;GB170 I (surge immunity Line	625.1,GB17743;	
AFETY &	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 12r 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/C Compliance to BS EAC TP TC 020; KC Compliance to BS EIne-Line 4KV); EAC 2391.4K hrs min.	oltage, re-power on to (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13- AC TP TC 004;BIS IS1 GB19510.1; IP65 or IP1 62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 N/EN55015,BS EN/EI c KN15,KN61547 N/EN61000-4-2,3,4,5 C TP TC 020; KC KN15 Telcordia SR-332 (Be	72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/- 67;KC61347-1,KC613 by request) for DA T, 0/P-FG:1.5KVAC 00VDC / 25°C / 70% F N61000-3-2 Class C	Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D/ 47-2-13 approved //pe only RH @load ≥ 50%) ;BS EN	A/36/36A/36B/42A/42E A/ EN61000-3-3;GB170 I (surge immunity Line	625.1,GB17743;	
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 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"), (BS EN/EN62384; E, only); GB19510.14, (Compliance to IEC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/C Compliance to BS EAC TP TC 020; KC Compliance to BS EIC ELine-Line 4KV); EAC	oltage, re-power on to (Please refer to " OUT ondensing 55% RH C) nin./1cycle, period for CSA C22.2 No. 250.13-AC TP TC 004;BIS IS1 GB19510.1; IP65 or IP162386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5:N/EN55015,BS EN/EI KN15,KN61547 EN/EN61000-4-2,3,4,5 TP TC 020; KC KN15 Telcordia SR-332 (BetW*H)	o recover TPUT 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 00VDC / 25°C / 70% F N61000-3-2 Class C	Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D. 47-2-13 approved //pe only RH @load ≥ 50%) ;BS EN	A/36/36A/36B/42A/42E A/ EN61000-3-3;GB170 I (surge immunity Line	625.1,GB17743;	

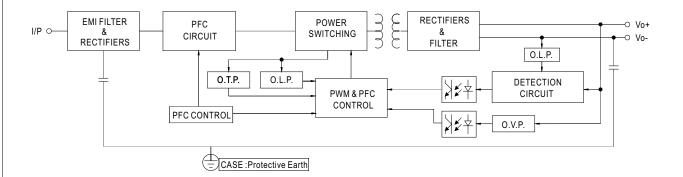
- 4. Tolerance: includes set up tolerance, line regulation and load regulation.
 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
 6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase 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 (c) 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, blease refer our user manual before using.

- 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
- BIS IS15885(for 12/12A/12B/12DA/24/24A/24B/24DA/36/36A/36B/42A/42B/48A/48B/54A/54B).
 To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently
- * Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



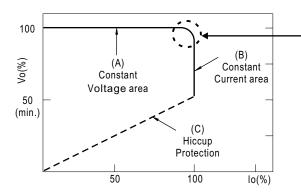
■ Block Diagram

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.



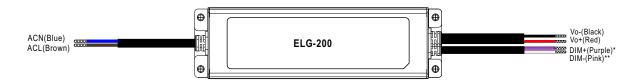
Typical output current normalized by rated current (%)

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.

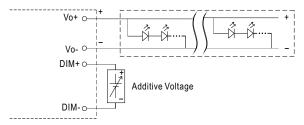


■ DIMMING OPERATION



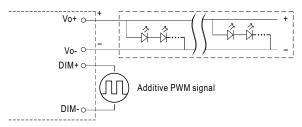
※ 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 ~ 10VDC, or 10V 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



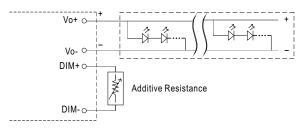
"DO NOT connect "DIM- to Vo-"

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

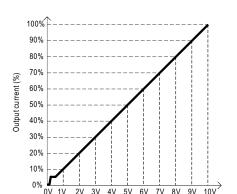


"DO NOT connect "DIM- to Vo-"

O Applying additive resistance:



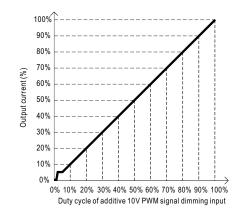
"DO NOT connect "DIM- to Vo-"

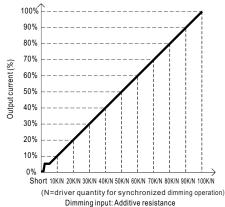


Dimming input: Additive voltage

* DIM+ for B/AB-Type DA+ for DA-Type PROG+ for D2-Type **DIM- for BA-Type

DA- for DA-Type PROG- for D2-Type





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 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.



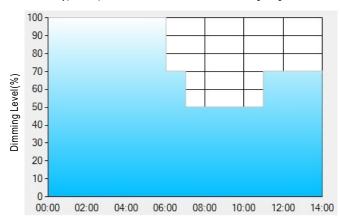
DALI Interface (primary side; for DA-Type)

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

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:

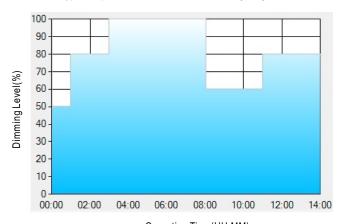
	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

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

 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:

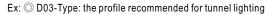
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

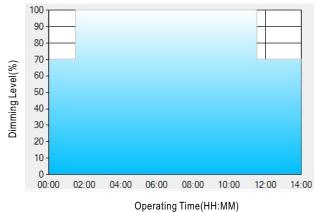
Operating Time(HH:MM)

- **: 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%

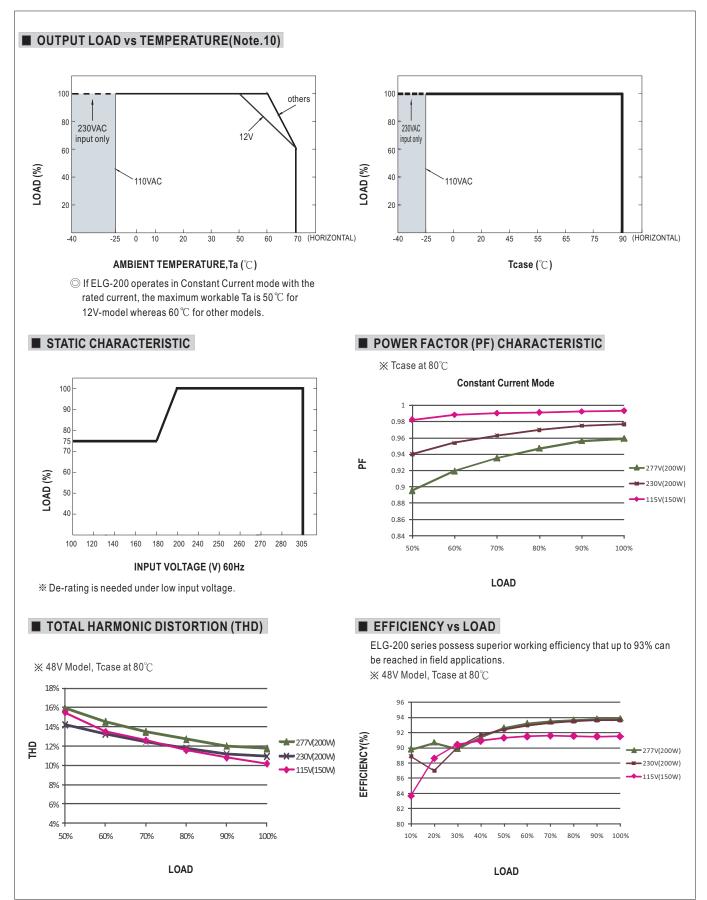
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

- [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.

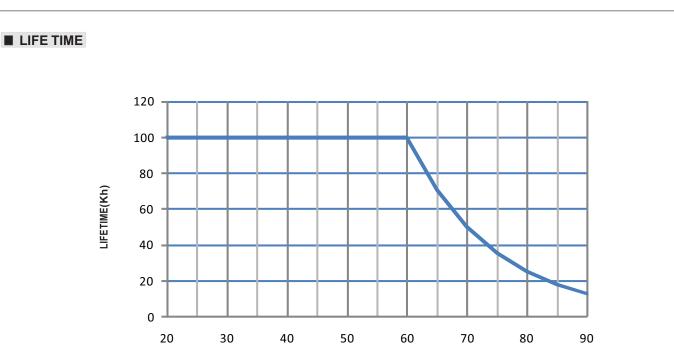
The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.

^{**:} TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.



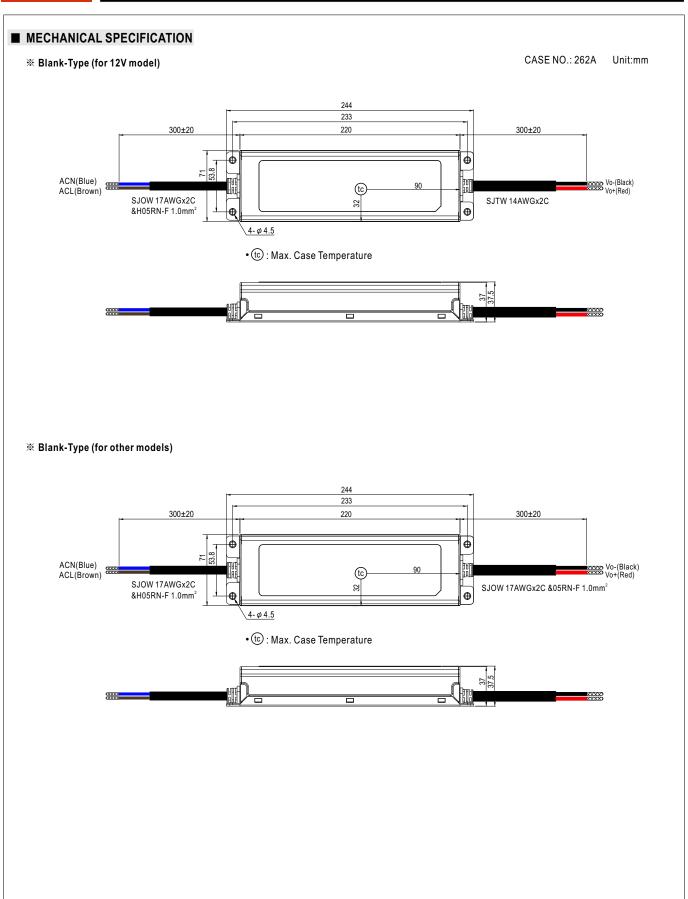




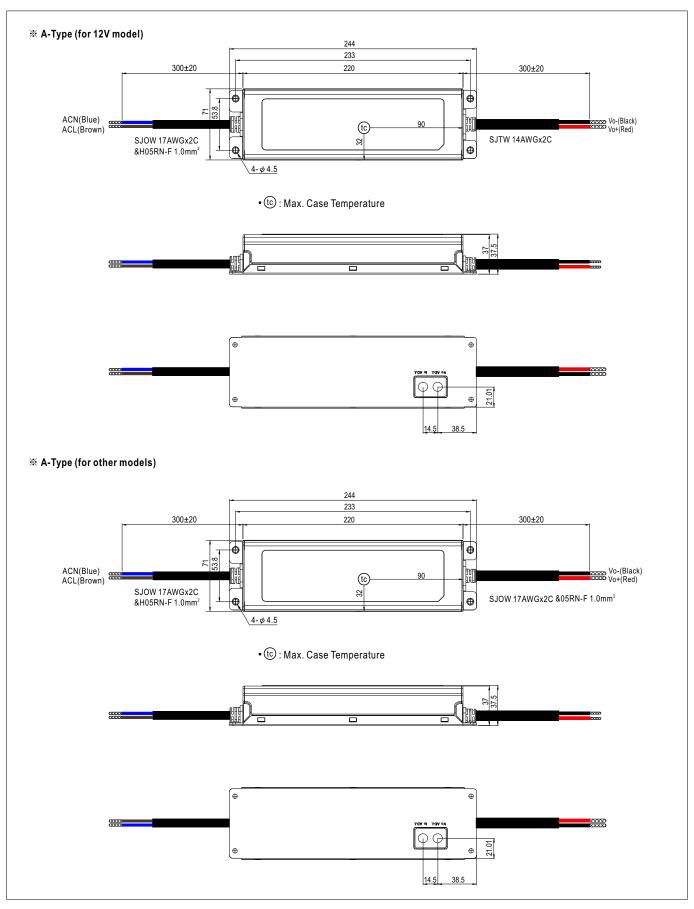


Tcase ($^{\circ}\!\mathbb{C}$)

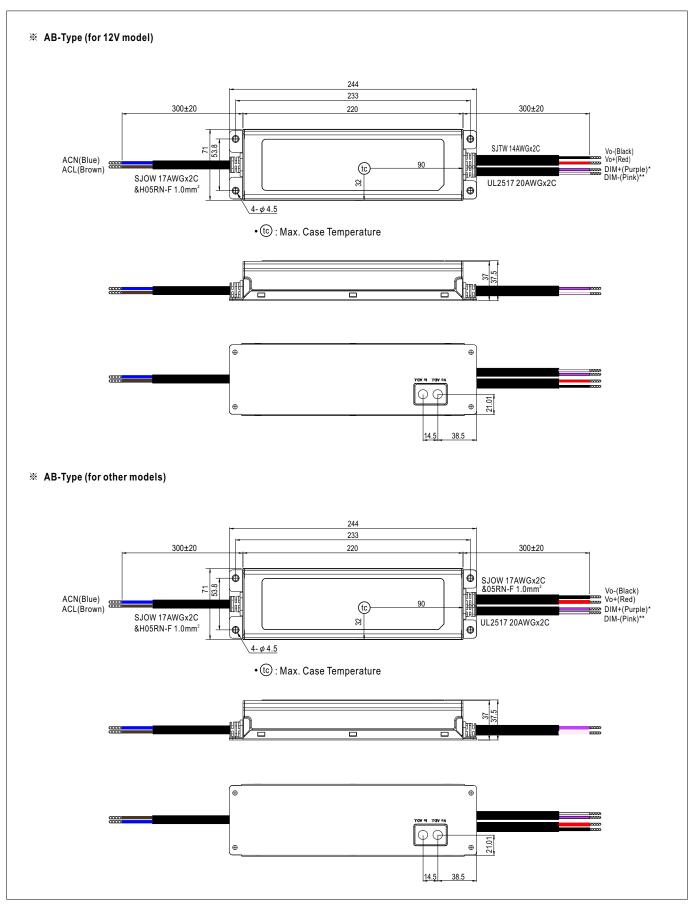




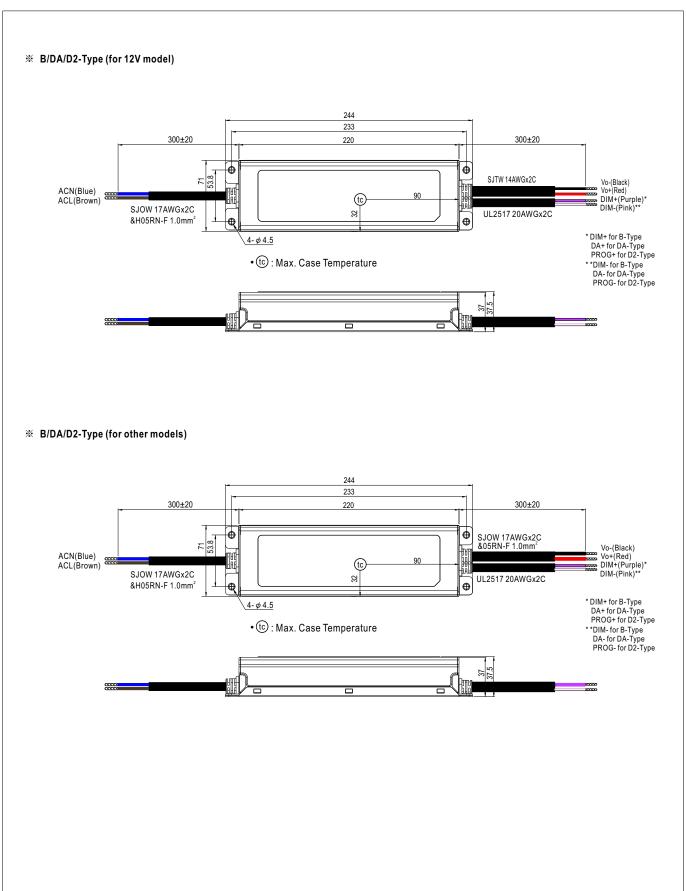






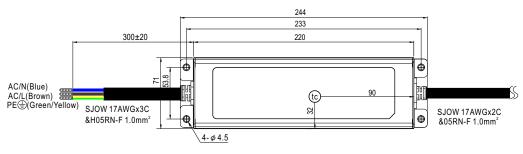








※ 3Y Model (3-wire input)



- (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.

■ INSTALLATION MANUAL

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