

Наличие и актуальные цены на

# **ELG-200-12B**

https://www.mean-well.ru/store/ELG-200-12B/























## 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

# Applications

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

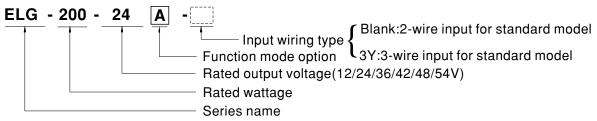
## GTIN CODE

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	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**

		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		200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
	INTIT EL & NOIDE (IIIAX.) Note.3				2001117 P	200111V p	0007	
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer)  11.2 ~ 12.8V						
UTPUT		11.2 ~ 12.8V	22.4 ~ 25.6V	1	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V	
	CURRENT ADJ. RANGE		-Type only (via built-in	<del>`</del>	1	1	1	
		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	500ms, 100ms/230\	/AC, 1000ms, 100ms	/115VAC				
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10m	ns/ 115VAC					
		100 ~ 305VAC	142 ~ 431VDC					
	VOLTAGE RANGE Note.5	(Please refer to "ST	ATIC CHARACTERIS	TIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz		· · · · · · · · · · · · · · · · · · ·				
			PF≥0.95/230VAC_PF	≥ 0.92/277VAC@full I	nad			
	POWER FACTOR	PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
		THD< 30% (@load)	50%/115VC,230VAC	`: @load>75%/277\//	·C)			
	TOTAL HARMONIC DISTORTION		TAL HARMONIC DIS					
NPUT	EFFICIENCY (Turn )	-				020/	020/	
IPUI	EFFICIENCY (Typ.)	90%	92%	92%	92.5%	93%	93%	
	AC CURRENT			277VAC				
	INRUSH CURRENT(Typ.)	COLD START 60A(	twidth=510µs measure	ed at 50% lpeak) at 23	0VAC; Per NEMA 410			
	MAX. No. of PSUs on 16A	4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC						
	CIRCUIT BREAKER	+ units (circuit breaker of type b) / o units (circuit breaker of type C) at 250VAC						
	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							
		95~108%						
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed						
	SHORT CIRCUIT		ers automatically afte					
RUTECTION	OHORT OHOOTT	13.5 ~ 18V	27 ~ 34V	42 ~ 49V	47 ~ 54V	54 ~ 63V	60 ~ 67V	
PROTECTION		13.3 - 10 V	21 - 34 V	.=	47 - 34 V	34~03V	00 - 07 V	
NO I LO I IUN	OVER VOLTAGE	Chut down output	oltago ro nowar an t	o rocovor			<u> </u>	
NO ILU IIUN			oltage, re-power on t					
WILCHUM	OVER TEMPERATURE	Shut down output v	oltage, re-power on t	o recover				
TOTEUTION	OVER TEMPERATURE WORKING TEMP.	Shut down output v Tcase=-40 ~ +90°C		o recover	ERATURE" section)			
NO LECTION	OVER TEMPERATURE	Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C	oltage, re-power on t (Please refer to " OUT	o recover	ERATURE" section)			
	OVER TEMPERATURE WORKING TEMP.	Shut down output v Tcase=-40 ~ +90°C	oltage, re-power on t (Please refer to " OUT	o recover	ERATURE" section)			
	OVER TEMPERATURE 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 ondensing	o recover	ERATURE" section)			
	OVER TEMPERATURE 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 ondensing 5% RH	o recover	ERATURE" section)			
NVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Shut down output v Tcase=-40 $^{\circ}$ +90 $^{\circ}$ C Tcase=+90 $^{\circ}$ C 20 $^{\circ}$ 95% RH non-c -40 $^{\circ}$ +90 $^{\circ}$ C, 10 $^{\circ}$ 9 $^{\circ}$ ±0.03%/ $^{\circ}$ C (0 $^{\circ}$ 50 $^{\circ}$	oltage, re-power on t (Please refer to " OUT ondensing 5% RH	o recover PUT LOAD vs TEMP(				
	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Shut down output v Tcase=-40 $^{\circ}$ +90 $^{\circ}$ C Tcase=+90 $^{\circ}$ 20 $^{\circ}$ 95% RH non-c -40 $^{\circ}$ +90 $^{\circ}$ , 10 $^{\circ}$ 9 $^{\circ}$ 0, 03%/ $^{\circ}$ (0 $^{\circ}$ 50 $^{\circ}$ 10 $^{\circ}$ 500Hz, 5G 12r	oltage, re-power on t (Please refer to " OUT ondensing 5% RH C) nin./1cycle, period for	o recover PUT LOAD vs TEMPE 72min. each along X,	Y, Z axes	EN/EN/AS/NZS 6134	7-2-13 independent	
	OVER TEMPERATURE 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 ~ 95% RH non-c - $40 \sim +90^{\circ}$ C, 10 ~ 9 $\pm 0.03\%$ /°C (0 ~ $50^{\circ}$ C 10 ~ $500$ Hz, 5G 12r UL8750(type"HL"), $900$	oltage, re-power on to (Please refer to " OUT condensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13	o recover PUT LOAD vs TEMPE 72min. each along X, -12;IEC/BS EN/EN/AS	Y, Z axes /NZS 61347-1, IEC/BS	EN/EN/AS/NZS 61347 A/36/36A/36B/42A/42E	•	
	OVER TEMPERATURE 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 $^{\circ}$ C 10 $\sim$ 500Hz, 5G 12r UL8750(type"HL"), 0 BS EN/EN62384; E.	oltage, re-power on to (Please refer to " OUT condensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13	o recover PUT LOAD vs TEMPt 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/	Y, Z axes /NZS 61347-1, IEC/BS /2DA/24/24A/24B/24D		•	
	OVER TEMPERATURE 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 $= 20 \sim 95 ^{\circ}$ RH non-c $= -40 \sim +90 ^{\circ}$ C, $= 10 \sim 90 ^{\circ}$ C,	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 TEMP( 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 2DA/24/24A/24B/24D 47-2-13 approved		•	
IVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	Shut down output v Tcase= $+40 \sim +90 ^{\circ}$ C Tcase= $+90 ^{\circ}$ C $= 20 \sim 95 ^{\circ}$ RH non-c $= -40 \sim +90 ^{\circ}$ C, $= 10 \sim 90 ^{\circ}$ C,	oltage, re-power on to (Please refer to " OUT condensing 5% RH C) nin./1cycle, period for CSA C22.2 No. 250.13 AC TP TC 004;BIS IS1 3B19510.1; 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 by request) for DA Ty	Y, Z axes /NZS 61347-1, IEC/BS 2DA/24/24A/24B/24D 47-2-13 approved		•	
AVIRONMENT	OVER TEMPERATURE 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 ℃ Tcase=+90 ℃ 20 ~ 95% RH non-c -40 ~ +90 ℃, 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	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 3B19510.1; IP65 or IP 62386-101,102,(207 I/P-FG:2.0KVAC	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 /2DA/24/24A/24B/24D 47-2-13 approved /pe only		•	
AVIRONMENT	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS	Shut down output v Tcase= $+40 \sim +90 ^{\circ}$ C Tcase= $+90 ^{\circ}$ C $20 \sim 95 ^{\circ}$ RH non-c $-40 \sim +90 ^{\circ}$ C, $10 \sim 9$ $\pm 0.03 ^{\prime}$ C $(0 \sim 50 ^{\circ}$ C $10 \sim 500 ^{\circ}$ Hz, 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/	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 3B19510.1; 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 I2DA/24/24A/24B/24D 47-2-13 approved rpe only	A/36/36A/36B/42A/42E	8/48/48A/48B/54A/5	
AFETY &	OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE	Shut down output v Tcase= $+40 \sim +90 ^{\circ}$ C Tcase= $+90 ^{\circ}$ C $20 \sim 95 ^{\circ}$ RH non-c $-40 \sim +90 ^{\circ}$ C, $10 \sim 9$ $\pm 0.03 ^{\prime}$ C $(0 \sim 50 ^{\circ}$ C $10 \sim 500 ^{\circ}$ Hz, 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/	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 BB19510.1; IP65 or IP62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 IN/EN55015,BS EN/E	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 I2DA/24/24A/24B/24D 47-2-13 approved rpe only		8/48/48A/48B/54A/5	
AFETY &	OVER TEMPERATURE 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 ℃ Tcase=+90 ℃ 20 ~ 95% RH non-c -40 ~ +90 ℃, 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	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 BB19510.1; IP65 or IP62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 N/EN55015,BS EN/E	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 rpe only RH @load ≥ 50%) ;BS EN	A/36/36A/36B/42A/42E	17743,GB17625.1;	
AFETY &	OVER TEMPERATURE 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 ℃ Tcase=+90 ℃ 20 ~ 95% RH non-c -40 ~ +90 ℃, 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 EAC TP TC 020; KC	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 BB19510.1; IP65 or IP62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 N/EN55015,BS EN/E	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  0/P-FG:1.5KVAC 00VDC / 25°C / 70% F N61000-3-2 Class C ( ,6,8,11; BS EN/EN615	Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D 47-2-13 approved rpe only RH @load ≥ 50%) ;BS EN	A/36/36A/36B/42A/42E	17743,GB17625.1;	
AFETY &	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	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 I/P-O/P, I/P-FG, O/C Compliance to BS EAC TP TC 020; KC Compliance to BS EIne-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 BB19510.1; IP65 or IP 62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 N/EN55015,BS EN/E KN15,KN61547 N/EN61000-4-2,3,4,5 TP TC 020; KC KN15	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 ( .6,8,11; BS EN/EN615 5,KN61547	Y, Z axes //NZS 61347-1, IEC/BS /2DA/24/24A/24B/24D 47-2-13 approved rpe only RH @load ≥ 50%) ;BS EN	A/36/36A/36B/42A/42E  I/ EN61000-3-3;GB/T	17743,GB17625.1;	
NVIRONMENT  AFETY &	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	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 I/P-O/P, I/P-FG, O/Compliance to BS EAC TP TC 020; KC Compliance to BS E Line-Line 4KV);EAC 2391.4K hrs min.	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 BB19510.1; IP65 or IP62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 N/EN55015,BS EN/E KN15,KN61547 N/EN61000-4-2,3,4,5 TP TC 020; KC KN15 Telcordia SR-332 (Be	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  0/P-FG:1.5KVAC 00VDC / 25°C / 70% F N61000-3-2 Class C ( ,6,8,11; BS EN/EN615	Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D 47-2-13 approved rpe only RH @load ≥ 50%) ;BS EN	A/36/36A/36B/42A/42E  I/ EN61000-3-3;GB/T	17743,GB17625.1;	
AVIRONMENT	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	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 I/P-O/P, I/P-FG, O/C Compliance to BS EAC TP TC 020; KC Compliance to BS EIne-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 BB19510.1; IP65 or IP 62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5 N/EN55015,BS EN/E KN15,KN61547 N/EN61000-4-2,3,4,5 TP TC 020; KC KN15 Telcordia SR-332 (BerW*H)	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 ( .6,8,11; BS EN/EN615 5,KN61547	Y, Z axes //NZS 61347-1, IEC/BS /2DA/24/24A/24B/24D 47-2-13 approved rpe only RH @load ≥ 50%) ;BS EN	A/36/36A/36B/42A/42E  I/ EN61000-3-3;GB/T	1/48/48A/48B/54A/5	

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

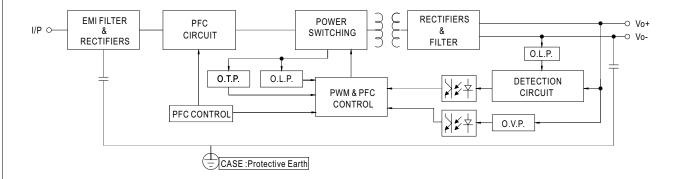
   (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
   This series meets the typical life expectancy of >50,000 hours of operation when Toase, particularly (to) point (or TMP, per DLC), is about 70°C or less.
   Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
   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).
   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/48/48A/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

- 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

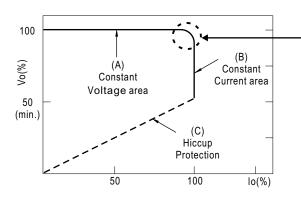
## ■ Block Diagram

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.

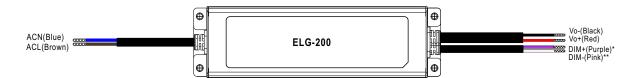


Typical output current normalized by rated current (%)

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

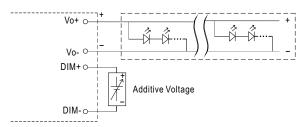
Should there be any compatibility issues, please contact MEAN WELL.

### **■ DIMMING OPERATION**



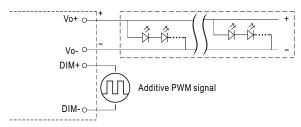
### **※** 3 in 1 dimming function (for B/AB-Type)

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



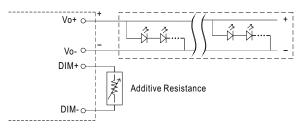
"DO NOT connect "DIM- to Vo-"

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



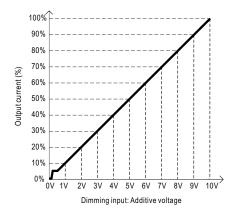
"DO NOT connect "DIM- to Vo-"

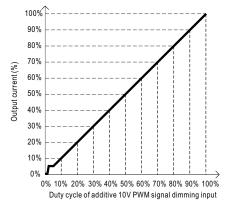
Applying additive resistance:

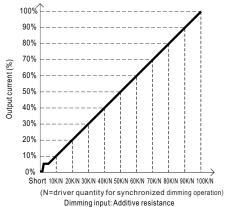


"DO NOT connect "DIM- to Vo-"









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



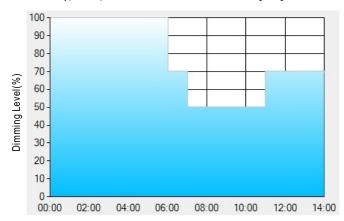
### DALI Interface (primary side; for DA-Type)

- · 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



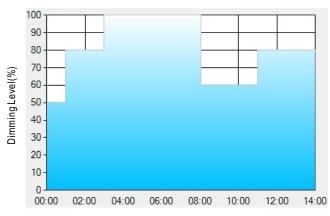
Set up for D01-Type in Smart timer dimming software program:

	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.
  - $\textbf{Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance: \textbf{Application adopts D01-Type} and \textbf{Application adopts D01-Type}. The transfer of the power supply at 6:00pm, for instance: \textbf{Application adopts D01-Type}, \textbf{Application adopts D01-Type}. The transfer of the$
- [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:

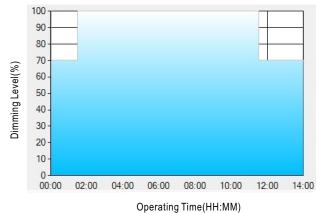
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

### 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.

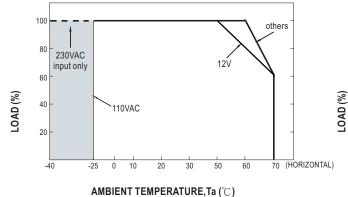
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

- [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.



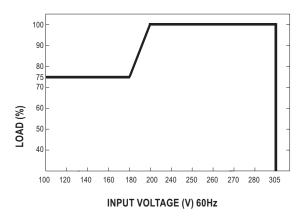
# ■ OUTPUT LOAD vs TEMPERATURE(Note.10)



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

# 100 80 230VAC 60 40 -25 0 20 45 55 65 75 90 (HORIZONTAL) Tcase (°C)

### ■ STATIC CHARACTERISTIC

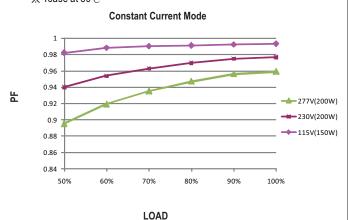


※ De-rating is needed under low input voltage.

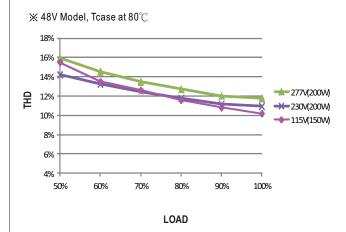
# ■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 80°

C

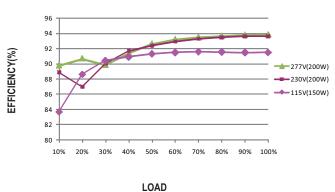


## ■ TOTAL HARMONIC DISTORTION (THD)

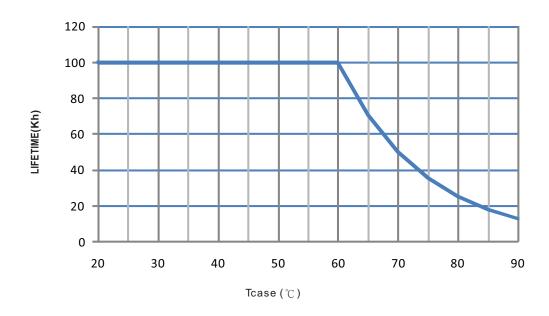


### **■** EFFICIENCY vs LOAD

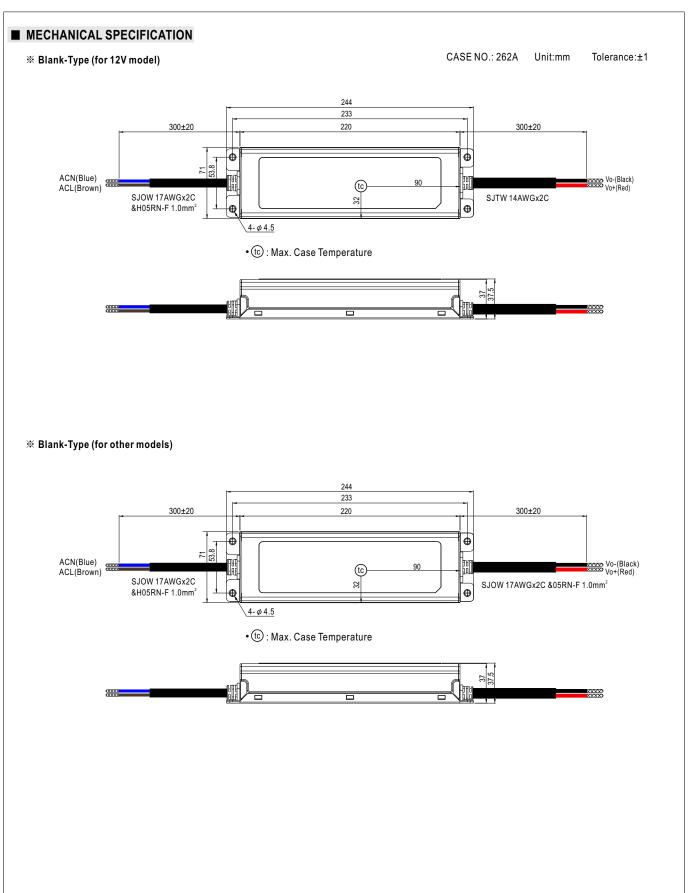
 ${\tt ELG-200}$  series possess superior working efficiency that up to 93% can be reached in field applications.



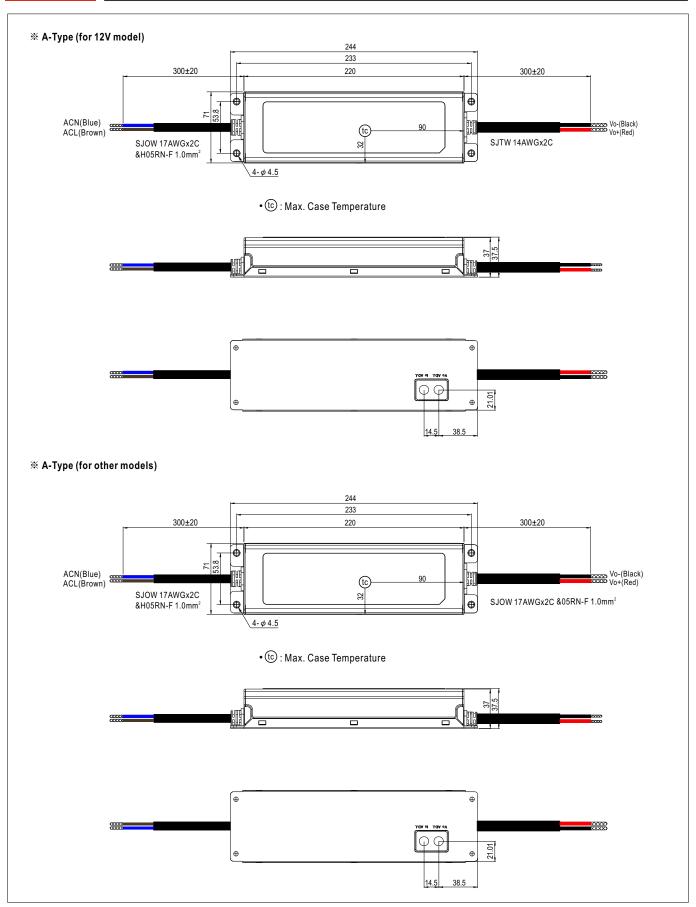
# ■ LIFE TIME



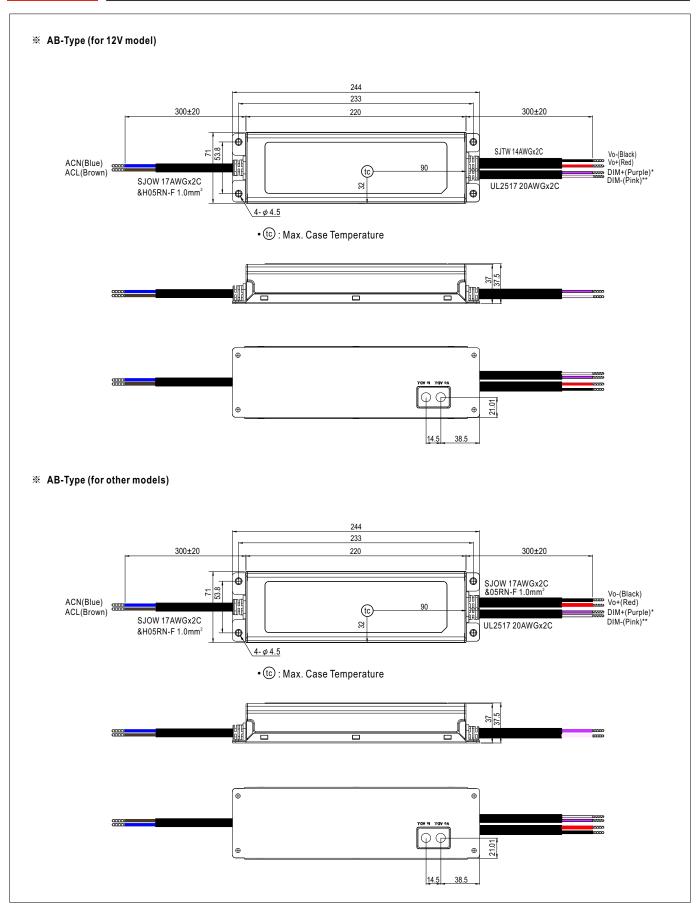






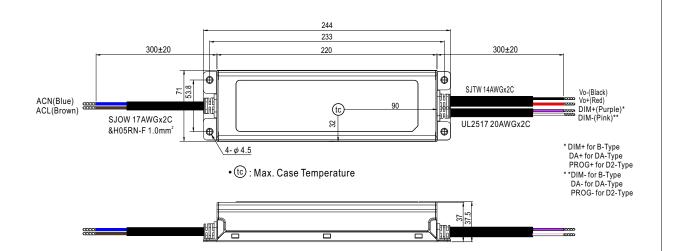




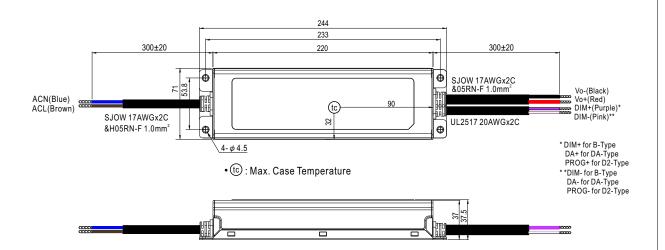




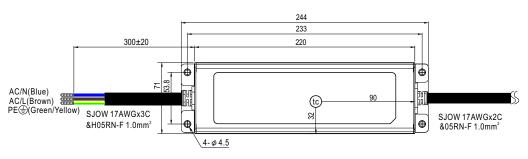
# ※ B/DA/D2-Type (for 12V model)



## ※ B/DA/D2-Type (for other models)



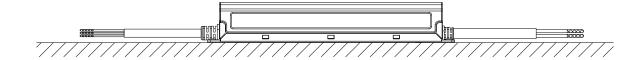
## ※ 3Y Model (3-wire input)



• 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