





















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.

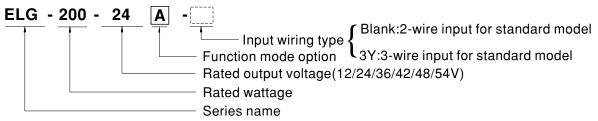
GTIN CODE

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	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

	T	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		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	T						
	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		
	VOLTACE AD L DANCE	Adjustable for A/AB-Type only (via built-in potentiometer)							
	VOLTAGE ADJ. RANGE	11.2 ~ 12.8V	22.4 ~ 25.6V	33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V		
DUTPUT		Adjustable for A/AB-	Type only (via built-in	potentiometer)	1				
	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		AC, 1000ms, 100ms		120.070	20.070	20.070		
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10m	· · · · · · · · · · · · · · · · · · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	HOLD OF TIME (Typ.)								
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR			≥ 0.92/277VAC@full l					
	TOWERTACTOR	,	. ,	HARACTERISTIC" sec					
	TOTAL HARMONIC DISTORTION			5; @load≧75%/277VA STORTION(THD)" se					
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(t	width=510us measure	ed at 50% Ipeak) at 23	0VAC: Per NEMA 410				
	MAX. No. of PSUs on 16A	COLD START 60A(twidth=510µs measured at 50% Ipeak) at 230VAC; Per NEMA 410							
	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		umption <0.5W for Bla	• • • • • • • • • • • • • • • • • • • •					
	POWER CONSUMPTION Note.7	Standby power consumption <0.5W for B / AB / DA-Type							
	OVER CURRENT	95 ~ 108%							
	O V LIN O O ININE	Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT	Hiccup mode, recov	,	r fault condition is rem	oved				
ROTECTION		Hiccup mode, recov	ers automatically afte 27 ~ 34V	r fault condition is rem 42 ~ 49V	oved 47 ~ 54V	54 ~ 63V	60 ~ 67V		
ROTECTION	SHORT CIRCUIT OVER VOLTAGE	13.5 ~ 18V	,	42 ~ 49V		54 ~ 63V	60 ~ 67V		
ROTECTION		13.5 ~ 18V Shut down output v	27 ~ 34V	42 ~ 49V o recover		54 ~ 63V	60 ~ 67V		
ROTECTION	OVER VOLTAGE	13.5 ~ 18V Shut down output vo	27 ~ 34V oltage, re-power on to oltage, re-power on t	42 ~ 49V o recover	47 ~ 54V	54 ~ 63V	60 ~ 67V		
ROTECTION	OVER VOLTAGE OVER TEMPERATURE	13.5 ~ 18V Shut down output vo	27 ~ 34V oltage, re-power on to oltage, re-power on t	42 ~ 49V o recover o recover	47 ~ 54V	54~63V	60 ~ 67V		
ROTECTION	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP.	13.5 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C	27 ~ 34V oltage, re-power on t oltage, re-power on t Please refer to " OUT	42 ~ 49V o recover o recover	47 ~ 54V	54 ~ 63V	60~67V		
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP.	13.5 ~ 18V Shut down output vomout output	27 ~ 34V bitage, re-power on to bitage, re-power on to (Please refer to " OUT) bindensing	42 ~ 49V o recover o recover	47 ~ 54V	54 ~ 63V	60~67V		
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	13.5 ~ 18V Shut down output von Shut down output von Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-con	27 ~ 34V bitage, re-power on t bitage, re-power on t (Please refer to " OUT ondensing 5% RH	42 ~ 49V o recover o recover	47 ~ 54V	54~63V	60~67V		
NVIRONMENT	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	13.5 ~ 18V Shut down output von Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-con -40 ~ +90°C, 10 ~ 95% $\pm 0.03\%$ C (0 ~ 50°C)	27 ~ 34V bitage, re-power on to litage, re-power on to (Please refer to " OUT bindensing 6% RH	42 ~ 49V o recover o recover	47 ~ 54V ERATURE" section)	54~63V	60 ~ 67V		
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	13.5 ~ 18V Shut down output von Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-conductive to the conductive to the con	27 ~ 34V bitage, re-power on to cyclease refer to "OUT cyclease refer to "O	42 ~ 49V o recover o recover PUT LOAD vs TEMPE 72min. each along X, -12;IEC/BS EN/EN/AS	47 ~ 54V ERATURE" section) Y, Z axes /NZS 61347-1, IEC/BS	54 ~ 63V EN/EN/AS/NZS 6134' A/36/36A/36B/42A/42E	7-2-13 independent		
	OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	13.5 ~ 18V Shut down output von Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-conductive to the conductive to the con	27 ~ 34V bitage, re-power on toltage, re-power of the second sec	72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/167;KC61347-1,KC613	47 ~ 54V 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		
IVIRONMENT	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 voltage = -40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-color = -40 ~ +90°C, 10 ~ 95°C ±0.03%/°C (0 ~ 50°C 10 ~ 500Hz, 5G 12m UL8750(type"HL"), CBS EN/EN62384; E/e only); GB19510.14, CCompliance to IEColor = -40 ~ +90°C, 10 ~ 50°C	27 ~ 34V bitage, re-power on toltage, re-power of the second sec	72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/167;KC61347-1,KC613	47 ~ 54V 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		
AVIRONMENT	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-cc -40 ~ +90°C, 10 ~ 98 ±0.03%/°C (0 ~ 50°C 10 ~ 500Hz, 5G 12m UL8750(type"HL"), C BS EN/EN62384; EA only); GB19510.14, C Compliance to IECO I/P-O/P:3.75KVAC	27 ~ 34V bitage, re-power on toltage, re-power on t	72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/167;KC61347-1,KC613 by request) for DA Ty O/P-FG:1.5KVAC	47 ~ 54V ERATURE" section) Y, Z axes //NZS 61347-1, IEC/BS (12DA/24/24A/24B/24D 47-2-13 approved upe only	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 voltage = -40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-color = -40 ~ +90°C, 10 ~ 95°C, 10 ~ 50°C, 10 ~ 50°	27 ~ 34V oltage, re-power on toltage, re-power of toltage, re-power on	72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/167;KC61347-1,KC613 by request) for PA Ty O/P-FG:1.5KVAC	47 ~ 54V ERATURE" section) Y, Z axes //NZS 61347-1, IEC/BS 12DA/24/24A/24B/24D 47-2-13 approved ripe only	EN/EN/AS/NZS 6134	7-2-13 independent 8/48/48A/48B/54A/5		
	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 voltage = -40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-color = -40 ~ +90°C, 10 ~ 95°C 10 ~ 500Hz, 5G 12m UL8750(type"HL"), CBS EN/EN62384; E/Fonly); GB19510.14, CCompliance to IECOLOR = -40 ~ 190°C, 10 ~ 50°C Compliance to BS EAC TP TC 020; KC Compliance to BS EAC TP TC 020; KC Compliance to BS EAC TP TC 020; KC	27 ~ 34V oltage, re-power on to oltage, re-power of oltage, oltage, re-power	42 ~ 49V o recover o recover PUT LOAD vs TEMPE 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/167;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	47 ~ 54V ERATURE" 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	EN/EN/AS/NZS 6134' A/36/36A/36B/42A/42E	7-2-13 independent 3/48/48A/48B/54A/5 17743,GB17625.1;		
AFETY &	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 Tcase=+90°C 20 ~ 95% RH non-cc -40 ~ +90°C, 10 ~ 98 ±0.03%/°C (0 ~ 50°C 10 ~ 500Hz, 5G 12m UL8750(type"HL"), C BS EN/EN62384; E/e only); GB19510.14, C Compliance to IECC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/I Compliance to BS E EAC TP TC 020; KC Compliance to BS E Line-Line 4KV);EAC	27 ~ 34V oltage, re-power on to oltage, re-power olta	42 ~ 49V o recover o recover PUT LOAD vs TEMPE 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 6,KN61547	A7 ~ 54V ERATURE" section) Y, Z axes INZS 61347-1, IEC/BS 12DA/24/24A/24B/24D 47-2-13 approved pe only RH @load ≥ 50%) ;BS EN 647, 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 3/48/48A/48B/54A/5 17743,GB17625.1;		
AFETY &	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 vi Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-cc -40 ~ +90°C, 10 ~ 95 ±0.03%/°C (0 ~ 50°C 10 ~ 500Hz, 5G 12m UL8750(type"HL"), C BS EN/EN62384; E/ only); GB19510.14, C Compliance to IECC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/I Compliance to BS E EAC TP TC 020; KC Compliance to BS E Line-Line 4KV); EAC 2391.4K hrs min.	27 ~ 34V 27 ~ 34V 21	42 ~ 49V o recover o recover PUT LOAD vs TEMPE 72min. each along X, -12;IEC/BS EN/EN/AS 5885(for 12/12A/12B/167;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	Y, Z axes INZS 61347-1, IEC/BS 2DA/24/24A/24B/24D 47-2-13 approved Ipe only RH @load ≥ 50%) ;BS EN	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 3/48/48A/48B/54A/5 17743,GB17625.1;		
IVIRONMENT	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 Tcase=+90°C 20 ~ 95% RH non-cc -40 ~ +90°C, 10 ~ 98 ±0.03%/°C (0 ~ 50°C 10 ~ 500Hz, 5G 12m UL8750(type"HL"), C BS EN/EN62384; E/e only); GB19510.14, C Compliance to IECC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/I Compliance to BS E EAC TP TC 020; KC Compliance to BS E Line-Line 4KV);EAC	27 ~ 34V oltage, re-power on toltage, re-power of	42 ~ 49V o recover o recover PUT LOAD vs TEMPE 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 6,KN61547	A7 ~ 54V ERATURE" section) Y, Z axes INZS 61347-1, IEC/BS 12DA/24/24A/24B/24D 47-2-13 approved pe only RH @load ≥ 50%) ;BS EN 647, 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 3/48/48A/48B/54A/5 17743,GB17625.1;		

- 2. Please felic to Driving METHOZOT LLD wildlife and 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

 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/EM_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 IS15885(for 12/12A/12B/12DA/24/24A/24B/24DA/36/36A/36B/42A/42B/48/48A/48B/54A/54B).

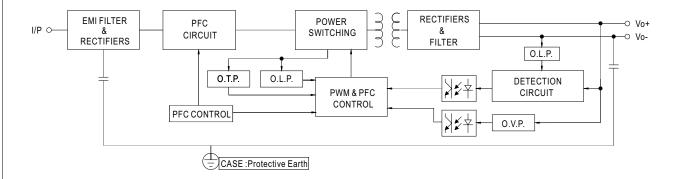
 14. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently

- 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

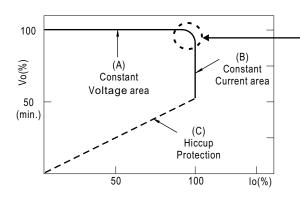
■ Block Diagram

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.

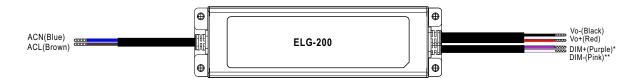


Typical output current normalized by rated current (%)

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

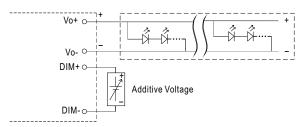
Should there be any compatibility issues, please contact MEAN WELL.

■ DIMMING OPERATION



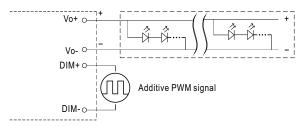
※ 3 in 1 dimming function (for B/AB-Type)

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



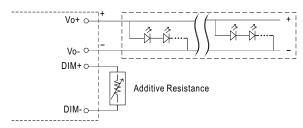
"DO NOT connect "DIM- to Vo-"

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



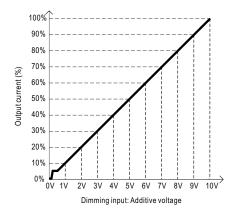
"DO NOT connect "DIM- to Vo-"

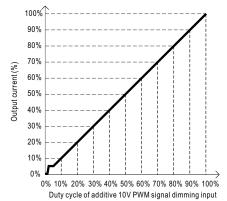
O Applying additive resistance:

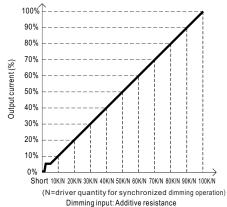


"DO NOT connect "DIM- to Vo-"









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.



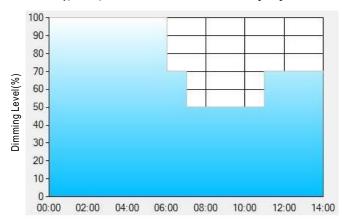
DALI Interface (primary side; for DA-Type)

- · 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:

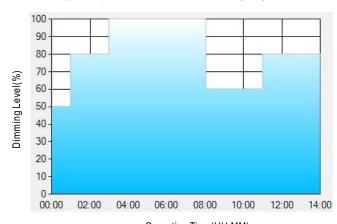
	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

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:

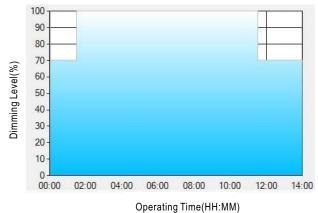
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

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%

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

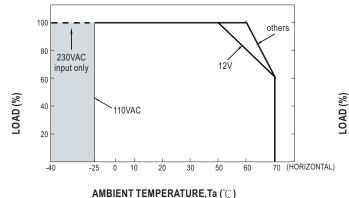
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

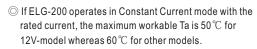
- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current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

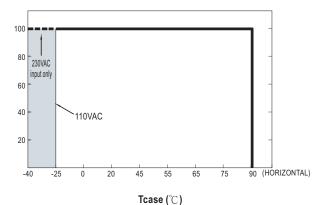
The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



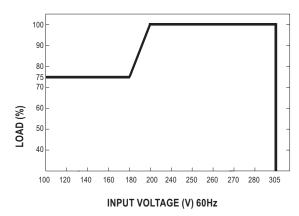
■ OUTPUT LOAD vs TEMPERATURE(Note.10)







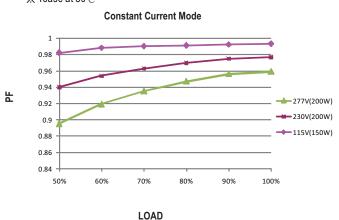
■ STATIC CHARACTERISTIC



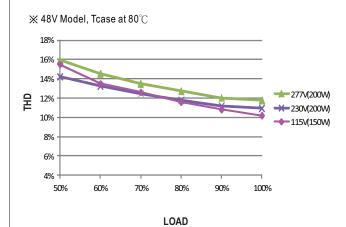
※ De-rating is needed under low input voltage.

■ POWER FACTOR (PF) CHARACTERISTIC

★ Tcase at 80°



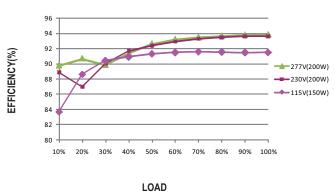
■ TOTAL HARMONIC DISTORTION (THD)



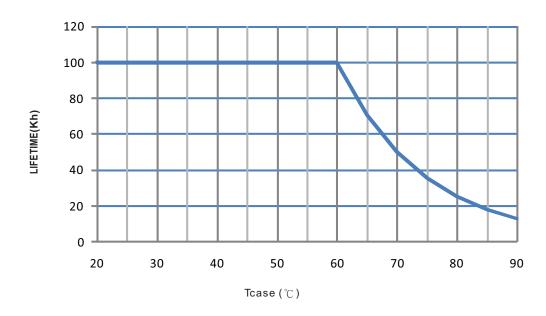
■ EFFICIENCY vs LOAD

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

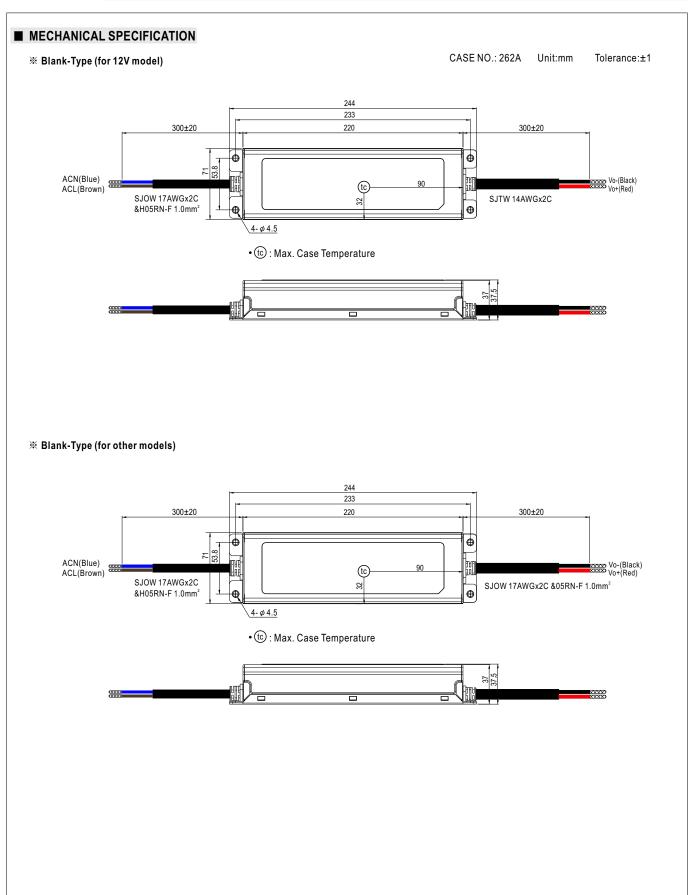
 $\ensuremath{\,\asymp\,}$ 48V Model, Tcase at 80 $^\circ\!\!\!\subset$



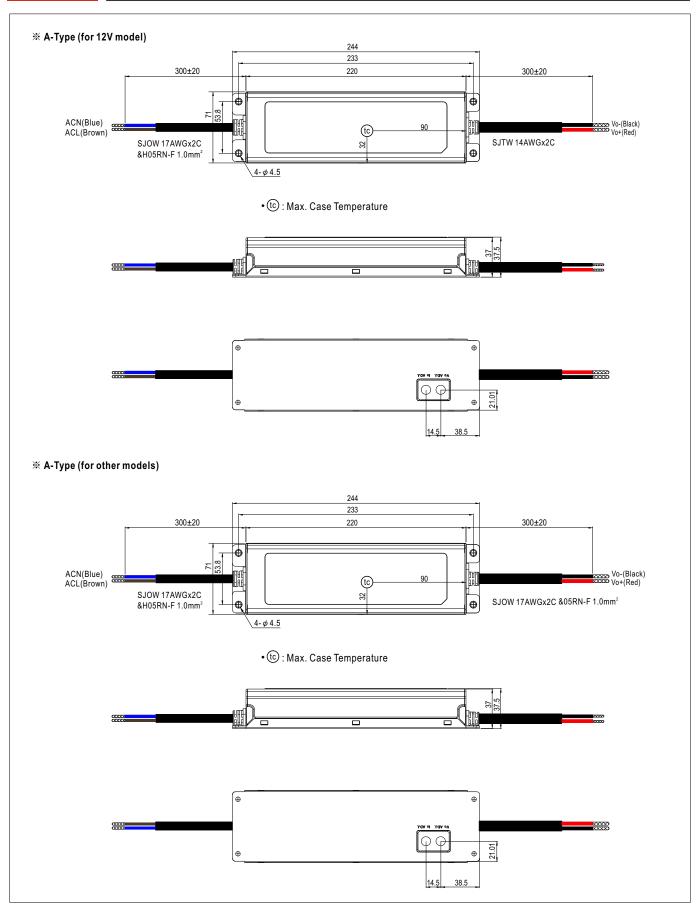
■ LIFE TIME



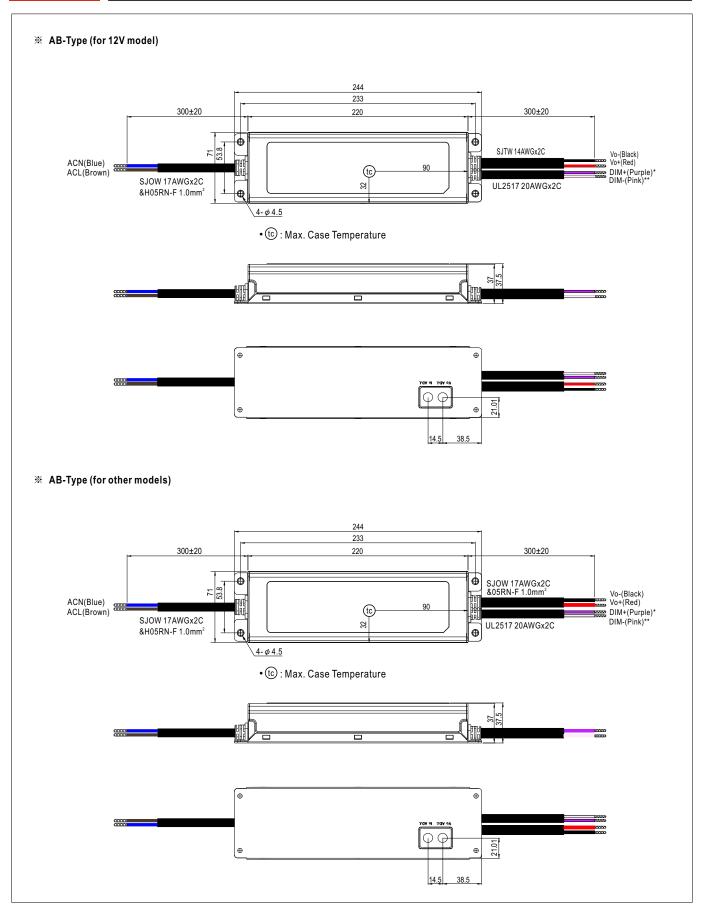






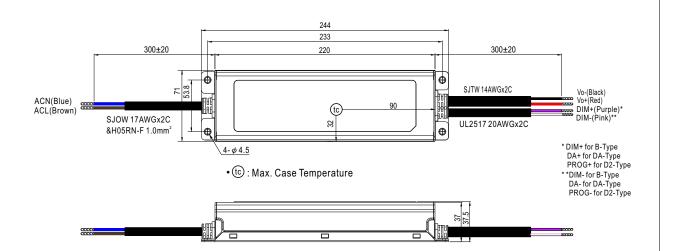




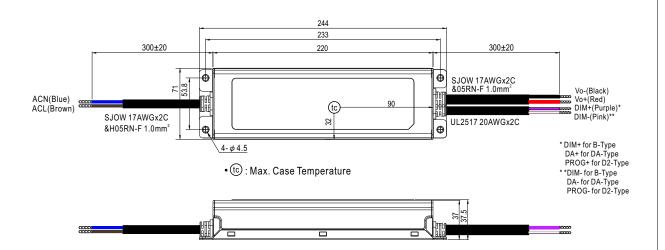




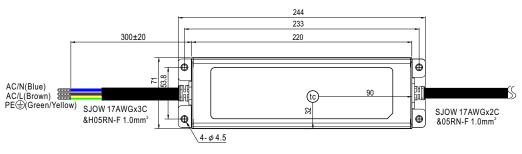
B/DA/D2-Type (for 12V model)



※ B/DA/D2-Type (for other models)



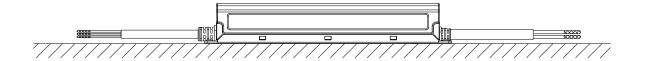
※ 3Y Model (3-wire input)



• 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