



⊠ 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

□ Description

Applications

Χ

LED street lighting

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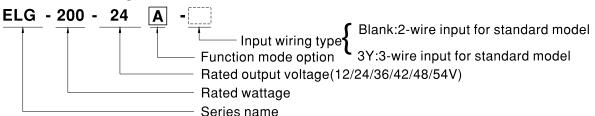
12B/24/24B/36/36

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

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ELG-200 series is a 200W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-200 operates from 100 \sim 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



Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed.	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
DA	IP67	DALI control technology.	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	In Stock

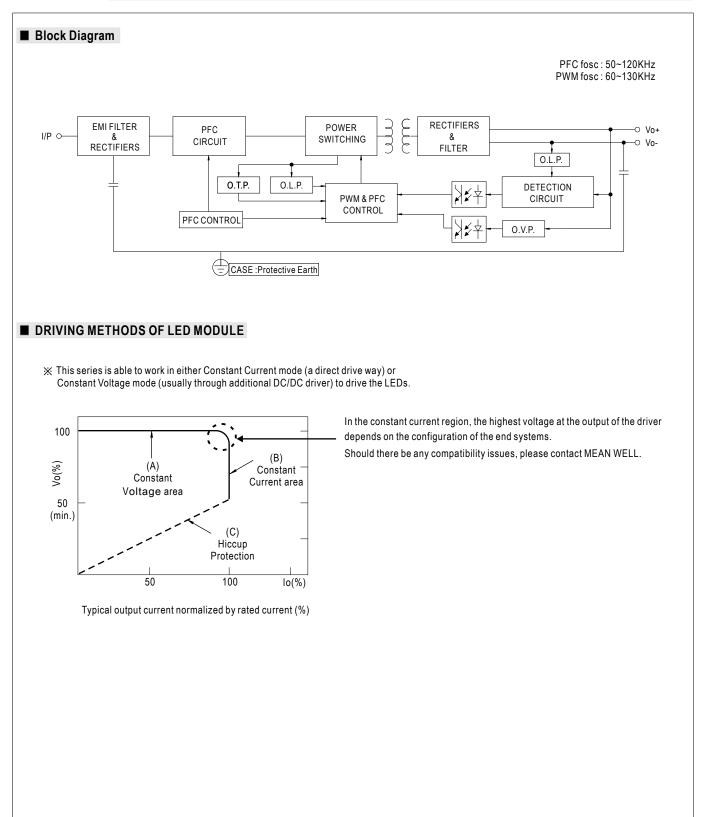




SPECIFICATION

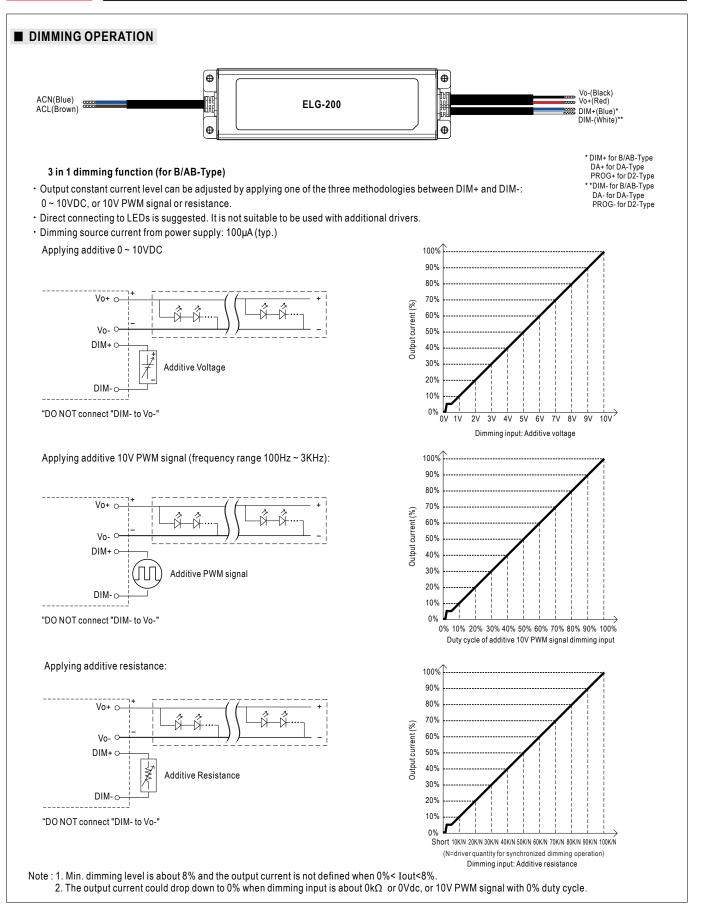
MODEL		ELG-200-12	ELG-200-24	ELG-200-36	ELG-200-42	ELG-200-48	ELG-200-54		
	DC VOLTAGE	12V	24V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.2	6 ~ 12V	12 ~ 24V	18 ~ 36V	21~42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	16A	8.4A	5.55A	4.76A	4.16A	3.72A		
		200VAC ~ 305VAC							
	RATED POWER	192W	201.6W	199.8W	199.9W	199.68W	200.88W		
		100VAC ~ 180VAC							
OUTPUT		144W	150W	149.76W	149.94W	149.76W	150.12W		
					250mVp-p		350mVp-p		
	RIPPLE & NOISE (max.) Note.3		200mVp-p	250mVp-p	25011Vp-p	250mVp-p	330mvp-p		
	VOLTAGE ADJ. RANGE		Type only (via built-in	, ,					
		11.2 ~ 12.8V	22.4 ~ 25.6V	33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V		
	CURRENT ADJ. 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			115VAC					
	•	500ms, 100ms/230VAC, 1000ms, 100ms/115VAC							
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 115VAC							
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)							
			ATIC CHARACTERIST	ic section)					
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR		F≧0.95/230VAC, PF						
		(Please refer to "POV	VER FACTOR (PF) CH	ARACTERISTIC" sec	tion)				
	TOTAL HARMONIC DISTORTION		50%/115VC,230VAC						
	TOTAL HARMONIC DISTORTION	(Please refer to "TO	TAL HARMONIC DIS	TORTION(THD)" se	ction)				
INPUT	EFFICIENCY (Typ.)	90%	92%	92%	92.5%	93%	93%		
	AC CURRENT	1.8A / 115VAC 1.1		277VAC		- I			
	INRUSH CURRENT(Typ.)	COLD START 60A(t	width=510µs measure	d at 50% lpeak) at 23	80VAC: Per NEMA 410				
	MAX. No. of PSUs on 16A		indin o ropio mododio						
	CIRCUIT BREAKER	4 units (circuit break	ker of type B) / 6 units	(circuit breaker of typ	be C) at 230VAC				
		<0.75m \ / 0.77\ / \ 0.							
	LEAKAGE CURRENT	<0.75mA/277VAC							
	NO LOAD / STANDBY	No load power consi	umption <0.5W for Bla	nk / A / Dx / D-Type					
	POWER CONSUMPTION Note.7 Standby power consumption <0.5W for B / AB / DA-Type								
		95~108%							
	OVER CURRENT		iting, recovers automa	tically after fault con	dition is removed				
	SHORT CIRCUIT		ers automatically after	,					
PROTECTION	SHOKT CIRCOTT	13.5 ~ 18V	27 ~ 34V	42~49V	47 ~ 54V	54~63V	60~67V		
	OVER VOLTAGE			-	47~54V	54~050	00~07V		
			oltage, re-power on to						
	OVER TEMPERATURE	· · ·	oltage, re-power on to						
	WORKING TEMP.	Tcase=-40 ~ +90°C ((Please refer to " OUT	PUT LOAD vs TEMPE	ERATURE" section)				
	MAX. CASE TEMP.	Tcase=+90°C							
	WORKING HUMIDITY	20 ~ 95% RH non-co	ondensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
	VIBRATION								
		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12;IEC/EN/AS/NZS 61347-1, IEC/EN/AS/NZS 61347-2-13 independent, EN62384; EAC TP TC 004:BIS IS15885(for 12/12B/24/24B/36/36A/42A/48/48A/54A only);GB19510.14,GB19510.1; IP65 or IP67;							
		· · · ·	``	-12-0/30/307/-27/-	0/+0A/0+A 0119),OD 10	5010.14,0010010.1, II	00 01 11 07,		
	DALI STANDARDS	KC KN61347-1,KN61347-2-13 approved							
		Compiy with IEC62386-101,102,207 for DA-Type only I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC							
SAFETY &	WITHSTAND VOLTAGE								
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH							
	EMC EMISSION					.1,GB17743;EAC TP TC			
	EMC IMMUNITY	Compliance to EN61000	-4-2,3,4,5,6,8,11; EN6154	7, light industry level (sur	ge immunity Line-Earth 6K	(V, Line-Line 4KV);EAC TP	TC 020; KC KN15,KN615		
	MTBF	826.7K hrs min. T	elcordia SR-332 (Bell	core) ; 200.8Khrs min	MIL-HDBK-217F	(25℃)			
OTHERS	DIMENSION	244*71*37.5mm (L*W*H)							
	PACKING	1.22Kg; 12pcs / 15.2	Kg / 0.72CUFT						
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 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. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) 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 12.For any application note and IP water proof function installation caution, please refer our user manual before using. 								
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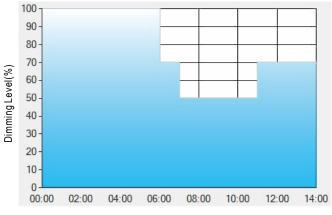
DALI Interface (primary side; for DA-Type)

- 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: D01-Type: the profile recommended for residential lighting



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

	T1	T2	Т3	Τ4
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.

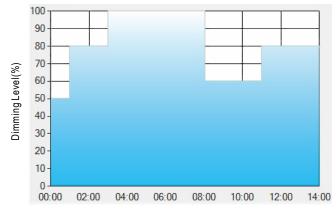
Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance:

[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: D02-Type: the profile recommended for street lighting



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

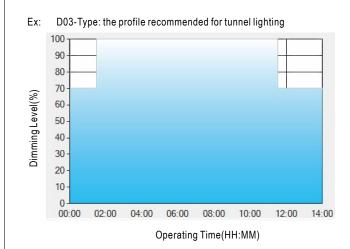
	T1	T2	Т3	T4	Τ5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

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:

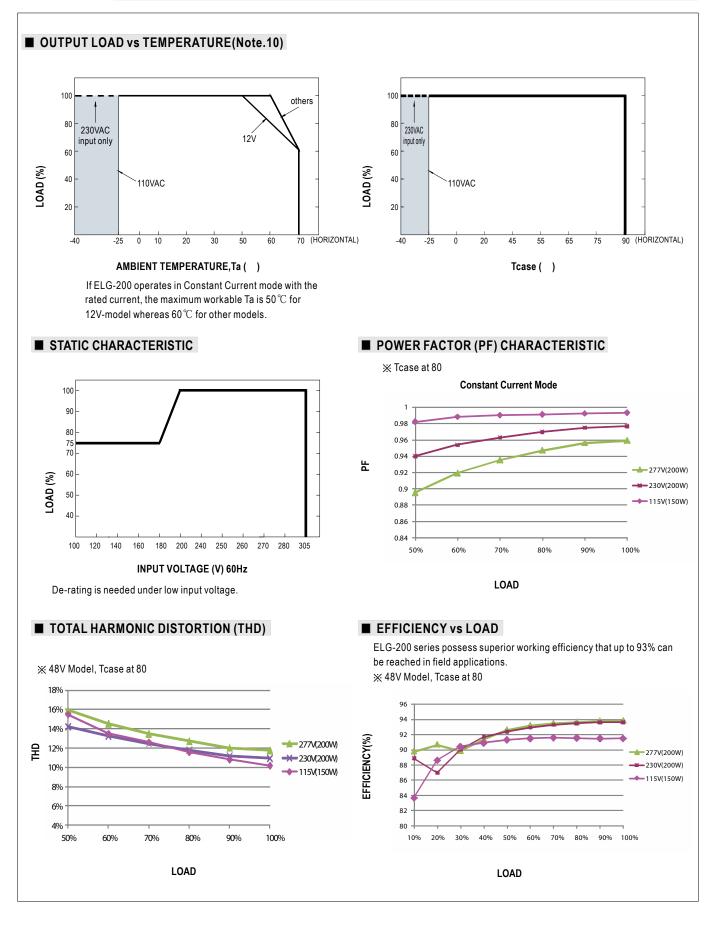
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[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.







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LIFE TIME

