

Наличие и актуальные цены на

# ELG-240-24B

https://www.mean-well.ru/store/ELG-240-24B/









Applications

GTIN CODE

LED street lighting

· LED bay lighting

· LED floodlighting

LED architectural lighting

· Type "HL" for use in Class I, Division 2

hazardous (Classified) location.

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

### 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

ELG-240 series is a 240W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-240 operates from  $100 \sim 305$ VAC and offers models with different rated voltage ranging between 24V and 54V. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for  $-40^{\circ}$ C  $\sim +90^{\circ}$ 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-240 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system

### Model Encoding

ELG - 240 - 24	A -
	Input wiring type Blank:2-wire input for standard model
	Function mode option $\Im$ 3Y:3-wire input for standard model
	Rated output voltage(24/36/42/48/54V)
	Rated wattage
	Series name

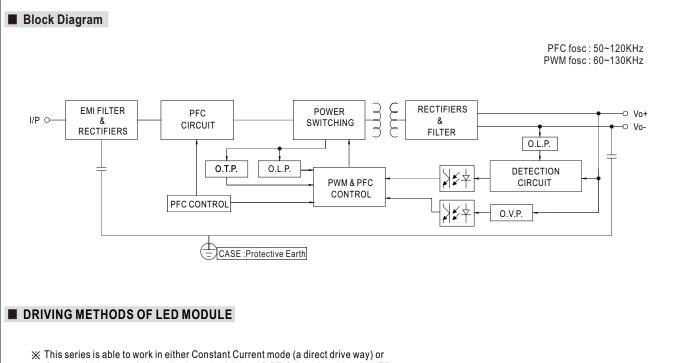
Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed.	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	IP65Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	
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



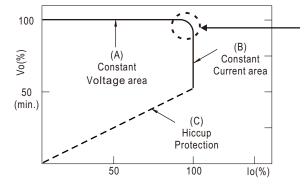
## 180~240W Constant Voltage + Constant Current LED Driver **ELG-240** series

MODEL		ELG-240-24	ELG-240-36	ELG-240-42	ELG-240-48	ELG-240-54		
	DC VOLTAGE	24V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.2		18 ~ 36V	21~42V	24~48V	27 ~ 54V		
	RATED CURRENT	10A	6.66A	5.71A	5.0A	4.45A		
		10A 0.00A 5.71A 5.0A 4.45A 200VAC ~ 305VAC						
			000 7014/	000.0014/	0.4014/	0.40.014/		
	RATED POWER	240W	239.76W	239.82W	240W	240.3W		
		100VAC ~ 180VAC						
		180W	180W	179.76W	180W	180.36W		
	RIPPLE & NOISE (max.) Note.3	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
		Adjustable for A/AB-Type	e only (via built-in potentio	ometer)				
	VOLTAGE ADJ. RANGE	22.4 ~ 25.6V	33.5 ~ 38.5V	39~45V	44.8 ~ 51.2V	50 ~ 57V		
OUTPUT		Adjustable for A/AB-Type			11.0 01.21	00 011		
	CURRENT ADJ. RANGE	5 ~ 10A	3.33 ~ 6.66A	2.86 ~ 5.71A	2.5 ~ 5A	0.00 4.454		
						2.23 ~ 4.45A		
	VOLTAGE TOLERANCE Note.4		±2.0%	±2.0%	±2.0%	±2.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±0.5%	±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 10ms/ 11	5VAC					
		100 ~ 305VAC 142	~ 431VDC					
	VOLTAGE RANGE Note.5	(Please refer to "STATIC	CHARACTERISTIC" sec	tion)				
	FREQUENCY RANGE	47 ~ 63Hz						
		PF≧0.97/115VAC, PF≧	0.95/230VAC. PF≥0.92/2	77VAC@full load				
	POWER FACTOR	(Please refer to "POWER						
		`						
	TOTAL HARMONIC DISTORTION		HARMONIC DISTORTI	/				
INDUT				, , ,	0.00/	000/		
INPUT	EFFICIENCY (Typ.)	92%	92%	92.5%	93%	93%		
	AC CURRENT		230VAC 1.2A/277VAC					
	INRUSH CURRENT(Typ.)	COLD START 60A(twidt	h=510µs measured at 50	% Ipeak) at 230VAC; Per	NEMA 410			
	MAX. No. of PSUs on 16A	1 units (circuit breaker o	f type B) / 6 units (circuit	breaker of type () at 230	VAC			
	CIRCUIT BREAKER			breaker of type 0) at 250	WAG			
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	NO LOAD / STANDBY	No load power consumpt	tion <0.5W for Blank / A /	Dx / D-Type				
	POWER CONSUMPTION Note.7	No load power consumption <0.5W for Blank / A / Dx / D-Type te.7 Standby power consumption <0.5W for B / AB / DA-Type						
		etanaby perior concamp						
	OVER CURRENT	95 ~ 108%						
			, recovers automatically a		loved			
	SHORT CIRCUIT		utomatically after fault co					
PROTECTION	OVER VOLTAGE	27 ~ 34V	42~49V	47 ~ 54V	54 ~ 63V	60~67V		
		Shut down output voltag	ge, re-power on to recov	er				
	OVER TEMPERATURE	Shut down output voltag	e, re-power on to recove	er				
	WORKING TEMP.	Tcase=-40 ~ +90°C (Plea	ase refer to " OUTPUT LC	AD vs TEMPERATURE"	section)			
	MAX. CASE TEMP.	Tcase=+90°C						
	WORKING HUMIDITY	20 ~ 95% RH non-conde	nsing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +90°C , 10 ~ 95% R						
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60℃)						
	VIBRATION	. ,	cycle, period for 72min.	and along V. V. 7 avec				
		,	<b>V</b> VI	0, ,		70 04047 0 40 5 1 5		
	SAFETY STANDARDS				47-1, IEC/BS EN/EN/AS/N			
					A/36B/42/42A/42B/48/48A/	40D/04/04A/04ADA/04B 0		
CALETA .		GB19510.14,GB19510.1; IP65 or IP67;KC61347-1,KC61347-2-13 approved Compliance to IEC62386-101,102,(207 by request) for DA Type only						
SAFETY &	DALI STANDARDS			,				
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC						
	ISOLATION RESISTANCE		6:100M Ohms / 500VDC					
	EMC EMISSION				0%) ; BS EN/EN61000-3-3	;		
		GB/T17743, GB17625.1	;EAC TP TC 020; KC KN	15,KN61547				
	EMC IMMUNITY				dustry level (surge immuni	ity Line-Earth 6KV,		
		Line-Line 4KV);EAC TP	TC 02; KC KN15,KN6154	1				
	MTBF	2391.4K hrs min. Teld	ordia SR-332 (Bellcore);	190.7K hrs min. M	/IL-HDBK-217F (25℃)			
OTHERS	DIMENSION	244*71*37.5mm (L*W*H	)					
	PACKING	1.22Kg; 12pcs / 15.2Kg /	0.72CUFT					
	1. All parameters NOT specially m	mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.						
NOTE	2. Please refer to "DRIVING METH	"DRIVING METHODS OF LED MODULE".						
	4. Tolerance : includes set up toler	neasured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. set up tolerance, line regulation and load regulation.						
		ting may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. th 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 consum	lo 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							
	(as available on https://www.me	plete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. vailable on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)						
	9. This series meets the typical life	s 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.						
	11. The ambient temperature dera	statement on MEAN WELL's website at http://www.meanwell.com ating of $3.5^{\circ}$ C/1000m with fanless models and of $5^{\circ}$ C/1000m with fan models for operating altitude higher than 2000m(6500ft).						
	12. For any application note and I	ote and IP water proof function installation caution, please refer our user manual before using.						
	13. To fulfill requirements of the lat	neanwell.com/Upload/PDF/LED_EN.pdf rements 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.			,		•		
	14. For A/AB type need to conside							





Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.

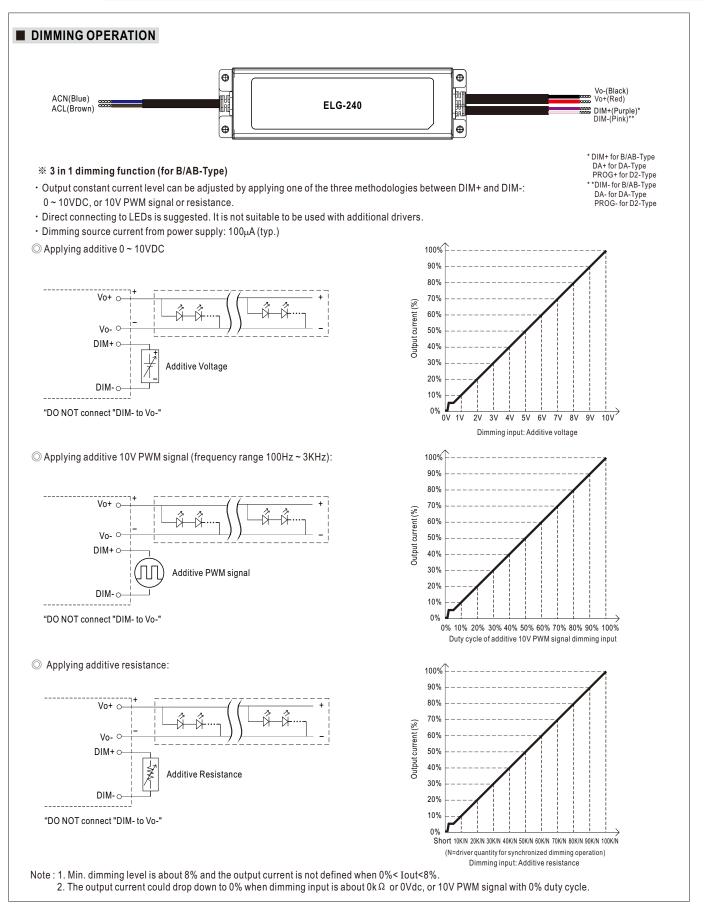


Typical output current normalized by rated current (%)

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.







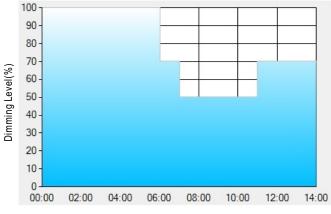
#### **※ DALI Interface (primary side; for DA-Type)**

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

#### **%** Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

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



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

	T1	T2	Т3	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: 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%



\*\*: 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.

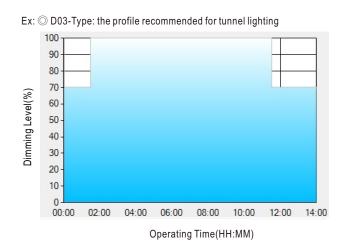
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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.

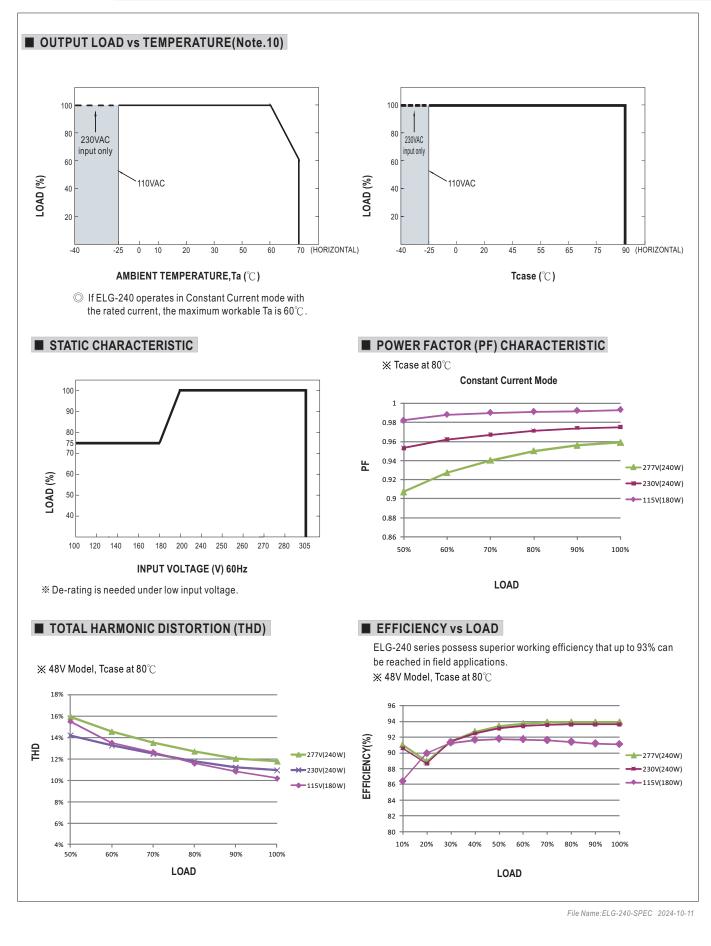
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

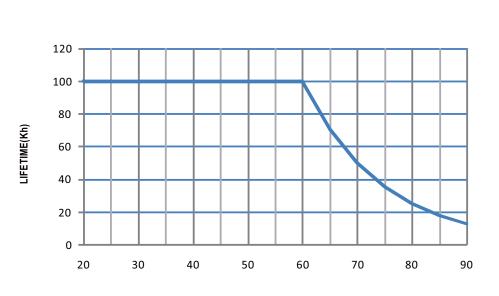
[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.







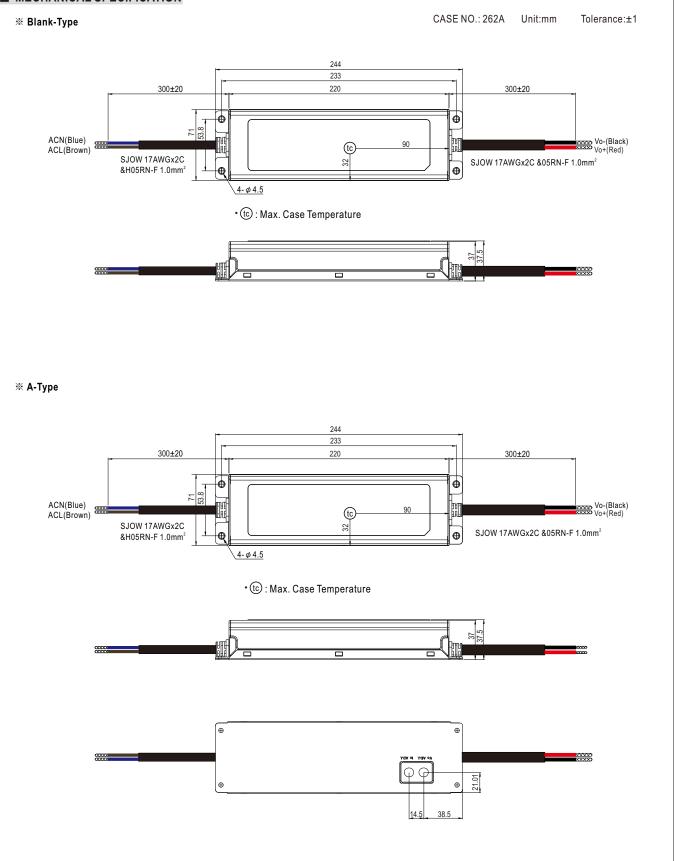
LIFE TIME



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



#### MECHANICAL SPECIFICATION



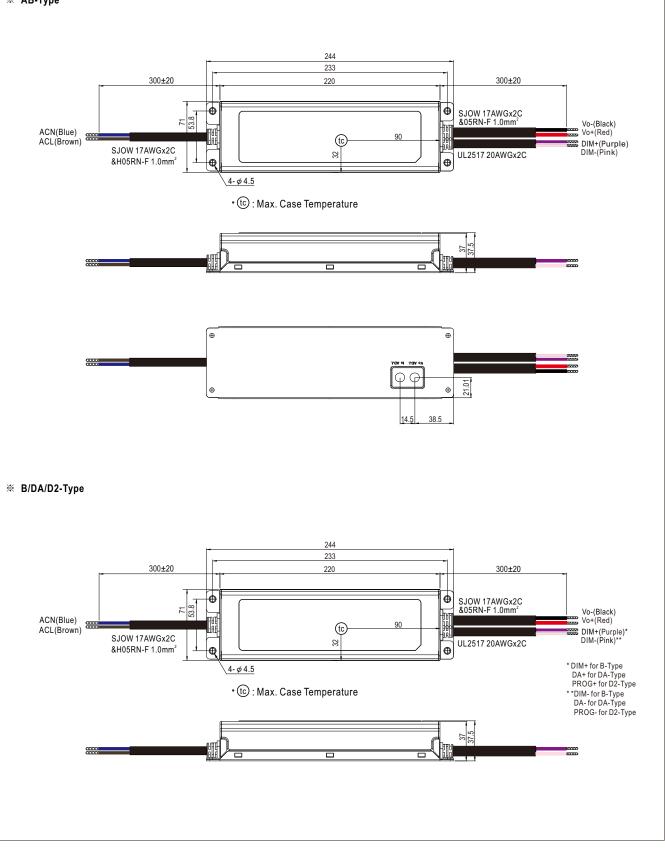
File Name:ELG-240-SPEC 2024-10-11



180~240W Constant Voltage + Constant Current LED Driver

## ELG-240 series

※ AB-Type



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180~240W Constant Voltage + Constant Current LED Driver

ELG-240 series

