

Наличие и актуальные цены на

# ELG-150-48A-3Y

https://www.meanwell.ru/store/ELG-150-48A-3Y/





- Typical lifetime>50000 hours
- 5 years warranty

## GTIN CODE

MW Search: <u>https://www.meanwell.com/serviceGTIN.aspx</u>

## Description

ELG-150 series is a 150W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-150 operates from 100~305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40  $^{\circ}$ C ~ +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-150 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 - 150 - 24	
	Input wiring type
	Function mode option 3Y:3-wire input for standard model Rated output voltage(12/24/36/42/48/54V)
	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	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

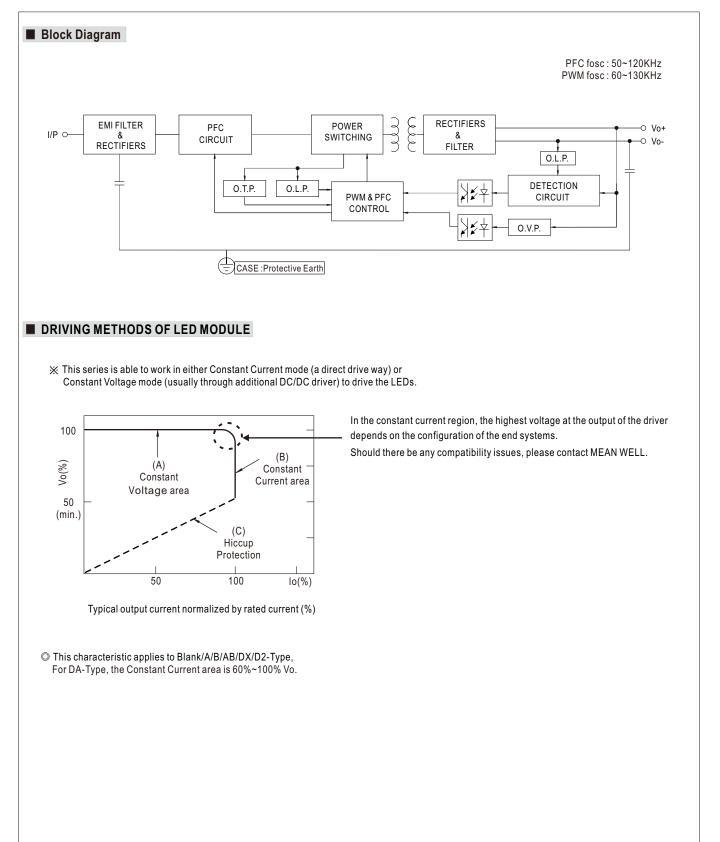


SPECIFICATION

MODEL		ELG-150-12	ELG-150-24	ELG-150-36	ELG-150-42	ELG-150-48	ELG-150-54		
	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	10A	6.25A	4.17A	3.57A	3.13A	2.8A		
		100VAC ~ 180VAC							
		84W	105W	105W	105W	105W	105W		
	RATED POWER	200VAC ~ 305VAC	1						
	POWER	120W	150W	150.1W	150W	150.2W	151.2W		
	RIPPLE & NOISE (max.) Note.3	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
		Adjustable for A/AB-Type only (via the built-in potentiometer)							
ОИТРИТ	VOLTAGE ADJ. RANGE	10.8 ~ 13.2V	21.6 ~ 26.4V	32.4 ~ 39.6V	37.8 ~ 46.2V	43.2 ~ 52.8V	49 ~ 58V		
	CURRENT ADJ. RANGE	Adjustable for A/AB-	Type only (via the bu	ilt-in potentiometer)			1		
		5~10A	3.2 ~ 6.25A	2.1 ~ 4.17A	1.8 ~ 3.57A	1.56 ~ 3.13A	1.4 ~ 2.8A		
	VOLTAGE TOLERANCE Note.4	±3.0%	±3.0%	±2.5%	±2.5%	±2.0%	±2.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME Note.6	1600ms, 80ms/115V	AC 500ms, 100	ms/230VAC					
	HOLD UP TIME (Typ.)	10ms/115VAC, 230V	AC						
-		100 ~ 305VAC	142 ~ 431VDC						
	VOLTAGE RANGE Note.5	(Please refer to "ST/	ATIC CHARACTERIS	TIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz							
		PF≥0.97/115VAC F	PF≥0.95/230VAC PF	= ≥0.92/277VAC@full	load				
	POWER FACTOR			HARACTERISTIC" sec					
		THD< 20%(@load≥	50%/115VC: @load	≧60%/230VAC; @loa	d≥75%/277\/∆C)				
	TOTAL HARMONIC DISTORTION			STORTION(THD)" se					
INPUT	EFFICIENCY (Typ.)	88.5%	89%	90%	90%	90%	91%		
	AC CURRENT			A/277VAC	5070	3070	5170		
						<u></u>			
	INRUSH CURRENT(Typ.)	COLD START 65A(	width=550µs measur	ed at 50% Ipeak) at 23	SUVAC; PER NEIMA 4 II	J			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 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 consi	umption <0.5W for BI	ank / A / Dx / D2-Type					
	POWER CONSUMPTION	No load power consumption <0.5W for Blank / A / Dx / D2-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							
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION		14~18V	28~34V	41~48V	47~54V	54~62V	59~68V		
	OVER VOLTAGE	Shut down output v	oltage, re-power on	o recover					
	OVER TEMPERATURE		oltage, re-power on t						
	WORKING TEMP.			FPUT LOAD vs TEMP	ERATURE" section)				
	MAX. CASE TEMP.	Tcase=+90°C	<b>.</b>		,				
	WORKING HUMIDITY	-	ondensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	20 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)							
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.13-12;IEC/BS EN/EN/AS/NZS 61347-1,IEC/BS EN/EN/AS/NZS 61347-2-13							
	SAFETY STANDARDS	independent,BS EN/E	EN62384,BIS IS1588	,	A/24/24A/24B/24DA/36	A/36B/42/42A/42B/48			
SAFETY &	DALI STANDARDS	Compliance to IEC6	62386-101,102,(207	by request) for DA Ty	/pe only				
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC	I/P-FG:2.0KVAC	O/P-FG:1.5KVAC					
	ISOLATION RESISTANCE				RH				
	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH           Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 60%); BS EN/EN61000-3-3; GB/T 17743,GB17625.1,           EAC TP TC 020; KC KN15,KN61547							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV), EAC TP TC 020; KC KN15,KN61547							
	MTBF			ellcore) ;313.7K hrs m	in. MIL-HDBK-217	E (25℃)			
OTHERS	DIMENSION	219*63*35.5mm (L*)		5110010, 313.7K 1118 111	WIL-HUDR-217	(20 0)			
STIEN3	PACKING	0.95Kg ; 16pcs/16.0	,						
	1. All parameters NOT specially r		0	ated aumont and 25°C	of ambient term and u	•			
NOTE	<ol> <li>Please refer to "DRIVING MET</li> <li>Ripple &amp; noise are measured</li> <li>Tolerance : includes set up tole</li> <li>De-rating may be needed under</li> <li>Length of set up time is measured.</li> <li>The driver is considered as a cons a considered as a</li></ol>	THODS OF LED MOD at 20MHz of bandwidth erance, line regulation : er low input voltages. F ured at first cold start. T component that will be equipment manufacture	ULE". For DA-Type, ( n by using a 12" twiste and load regulation. Please refer to "STATI Turning ON/OFF the o operated in combinat	Constant Current regior ed pair-wire terminated C CHARACTERISTIC: Iriver may lead to incre ion with final equipmen //C Directive on the cor	n is 60%~100% of may with a 0.1uf & 47uf pa S" sections for details. ease of the set up time at. Since EMC performa	kimum voltage under ra rallel capacitor. ance will be affected by			

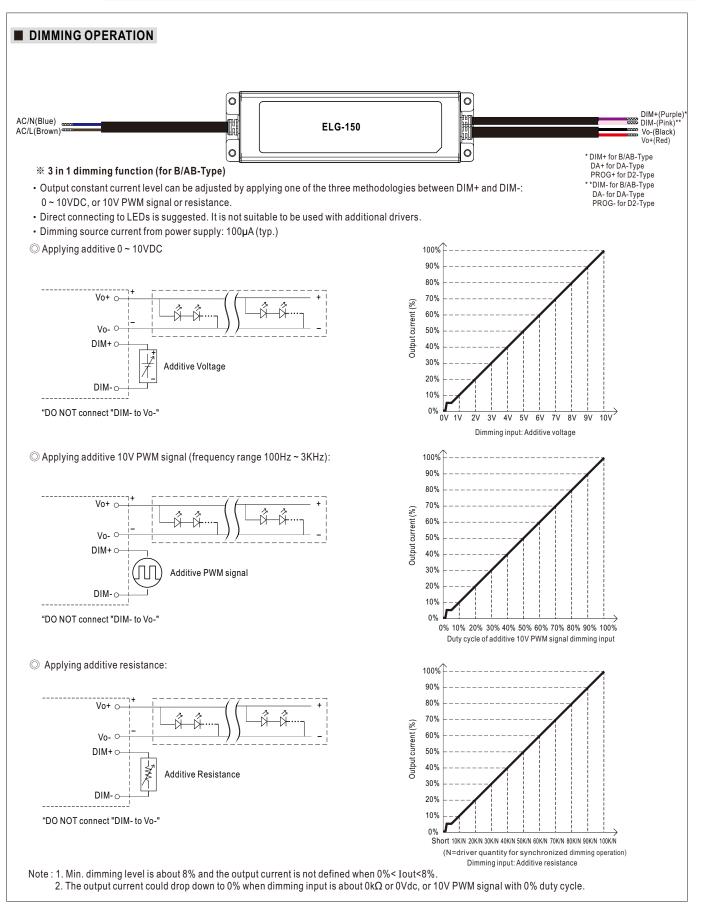


84~150W Constant Voltage + Constant Current LED Driver ELG-150 series





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File Name:ELG-150-SPEC 2024-10-11



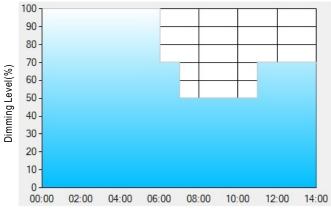
#### ※ DALI Interface (primary side; for DA-Type)

- 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	Τ5
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.

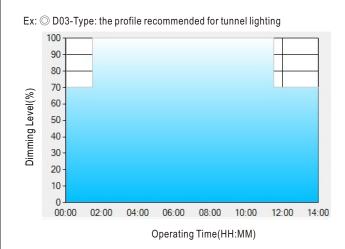
Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:

[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:

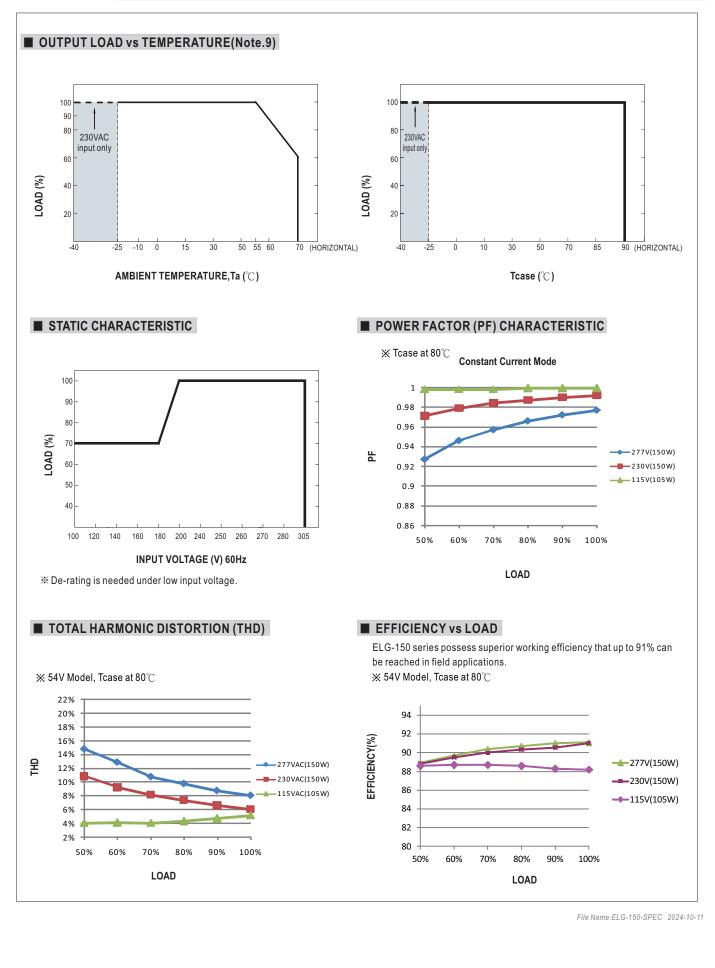
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[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.



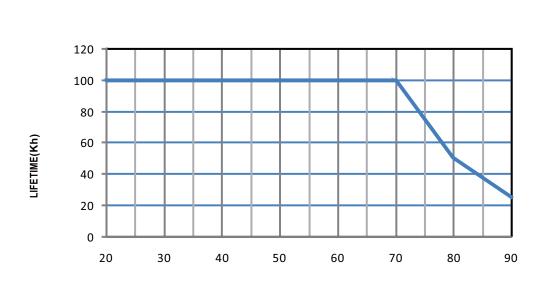
84~150W Constant Voltage + Constant Current LED Driver ELG-150 series





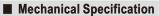
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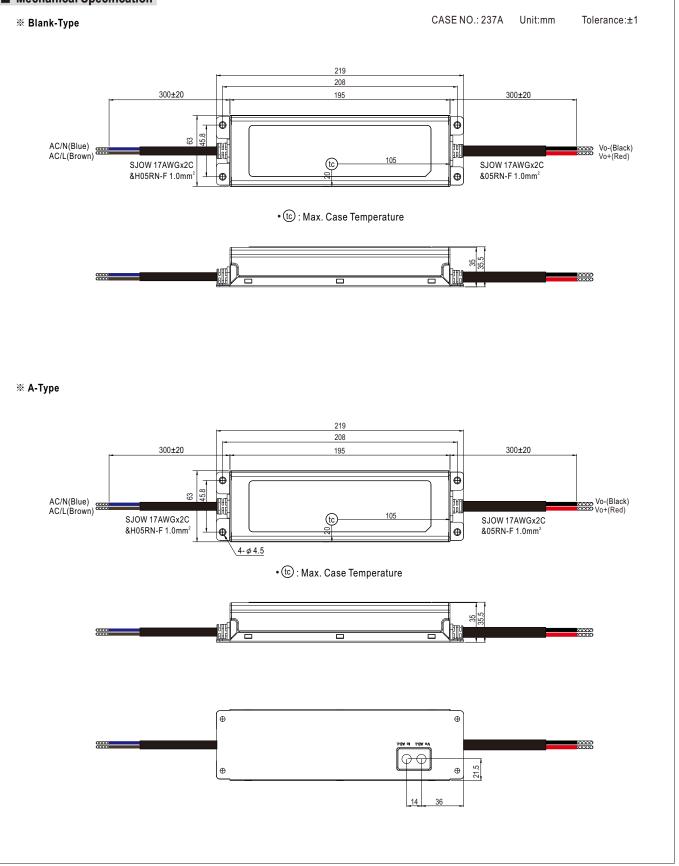
LIFE TIME



Tcase (°C)

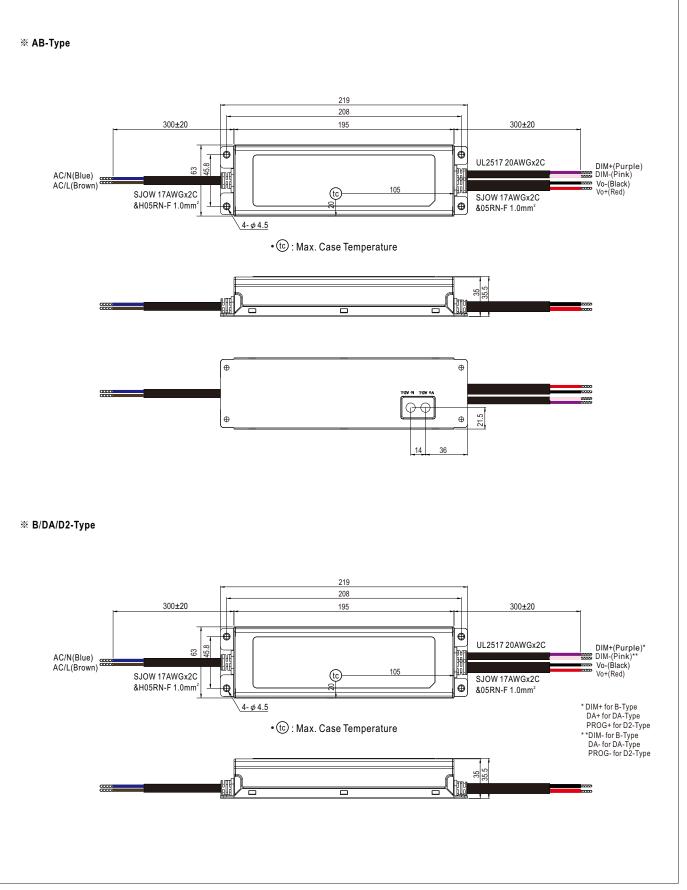








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