

Наличие и актуальные цены на

ELG-150-12

https://www.mean-well.ru/store/ELG-150-12/































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.

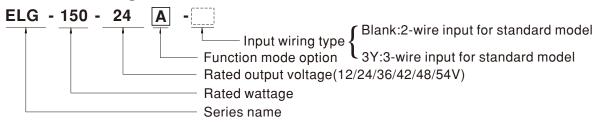
GTIN CODE

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

Description

ELG-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 °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-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



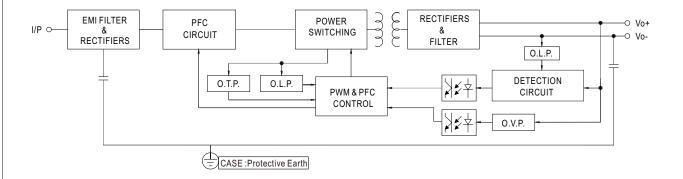
Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed.	In Stock
Α	IP65	Io and Vo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function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



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		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							
	RATED	84W	105W	105W	105W	105W	105W		
	POWER	200VAC ~ 305VAC							
		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 bu	uilt-in potentiometer)		1			
	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							
DUTPUT		Adjustable for A/AB-	Type only (via the bu	uilt-in potentiometer)					
	CURRENT ADJ. RANGE	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%	±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		ms/230VAC	1=0.070		l l		
	HOLD UP TIME (Typ.)	10ms/115VAC, 230\	· · · · · · · · · · · · · · · · · · ·						
	TIOLD OF TIME (Typ.)								
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	(Please refer to STATIC CHARACTERISTIC section) 47 ~ 63Hz							
			PF>0.95/230\/AC D	F≥0.92/277VAC@full	load				
	POWER FACTOR			r ≦ 0.92/277 VAC@IUII CHARACTERISTIC" se					
		,	. ,	l≧60%/230VAC; @loa	•				
	TOTAL HARMONIC DISTORTION			i≦60%/230VAC;@ioa ISTORTION(THD)" se					
INPUT	EFFICIENCY (Typ.)	88.5%	89%	90%	90%	90%	91%		
	AC CURRENT		1	7A/277VAC	3070	30 /6	3170		
	INRUSH CURRENT(Typ.)				30VAC; Per NEMA 41	^			
		COLD START 65A(I	twidtii=330μs measu	reu at 50 % ipeak) at 2	30VAC; FEI NEIVIA 4 I	0			
	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 cons	umption <0.5W for B	lank / A / Dx / D2-Type	1				
	POWER CONSUMPTION		sumption <0.5W for E	* '					
		95 ~ 108%							
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT			er fault condition is rer					
PROTECTION	OHORT OIRCOTT	14 ~ 18V	28 ~ 34V	41 ~ 48V	47 ~ 54V	54 ~ 62V	59 ~ 68V		
	OVER VOLTAGE		oltage, re-power on	_		01 021	100 001		
	OVER TEMPERATURE		oltage, re-power on						
	WORKING TEMP.	· · · · · · · · · · · · · · · · · · ·		TPUT LOAD vs TEMP	PERATURE" section)				
	MAX. CASE TEMP.	Tcase=+90°C	(**************************************						
	WORKING HUMIDITY		ondensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	20 ~ 95% RH non-condensing							
LHVIRONMENT	TEMP. COEFFICIENT								
	VIBRATION	±0.03%/°C (0~60°C)							
	VIDRATION	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	1 1 //		,	3/NZS 61347-1,IEC/BS A/24/24A/24B/24DA/36				
	OAFELL STANDAKDS	1 '	,	*	7-1,KC61347-2-13 app				
SAFETY &	DALI STANDARDS	· · · · · · · · · · · · · · · · · · ·		by request) for DAT					
EMC	WITHSTAND VOLTAGE	-	-		•				
	ISOLATION RESISTANCE	I/P-O/P:3.75KVAC							
		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,							
	EMC EMISSION	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 60%); BS EN/EN61000-3-3; GB/1 17/43,GB1/625.1, EAC TP TC 020; KC KN15,KN61547							
	EMC IMMUNITY		· · · · · · · · · · · · · · · · · · ·	5,6,8,11; BS EN/EN61	547, light industry lev	el (surge immunity Lin	e-Earth 6KV,		
	EMC IMMUNITY		TP TC 020; KC KN						
	MTBF	2661.6K hrs min.	Telcordia SR-332 (B	Bellcore) ;313.7K hrs m	nin. MIL-HDBK-217	F (25°C)			
OTHERS	DIMENSION	219*63*35.5mm (L*	*W*H)						
	PACKING	0.95Kg; 16pcs/16.0	kg/0.77CUFT						
NOTE	All parameters NOT specially r Please refer to "DRIVING ME" Ripple & noise are measured a Tolerance : includes set up tole De-rating may be needed unde Length of set up time is measured.	THODS OF LED MOD at 20MHz of bandwidth erance, line regulation er low input voltages. I ured at first cold start.	DULE". For DA-Type, h by using a 12" twist and load regulation. Please refer to "STAT Turning ON/OFF the	Constant Current region ed pair-wire terminated IC CHARACTERISTIC driver may lead to incretion with final equipments.	n is 60%~100% of man I with a 0.1uf & 47uf pa S" sections for details.	ximum voltage under ra arallel capacitor. ance will be affected by			

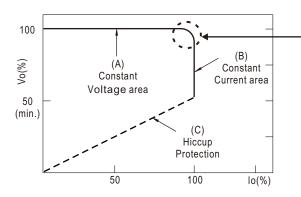
■ Block Diagram

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.



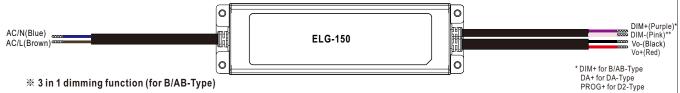
Typical output current normalized by rated current (%)

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

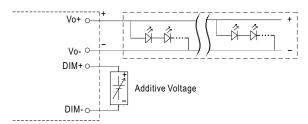
Should there be any compatibility issues, please contact MEAN WELL.

© This characteristic applies to Blank/A/B/AB/DX/D2-Type, For DA-Type, the Constant Current area is 60%∼100% Vo.

■ DIMMING OPERATION

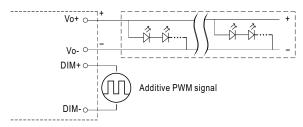


- **※** 3 in 1 dimming function (for B/AB-Type)
- · Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



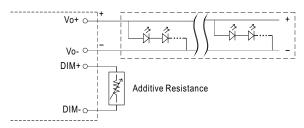
"DO NOT connect "DIM- to Vo-"

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

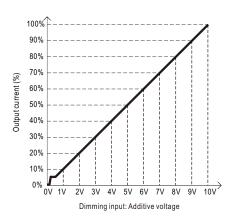


"DO NOT connect "DIM- to Vo-"

Applying additive resistance:

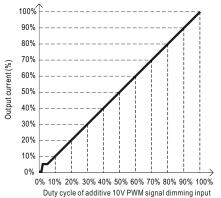


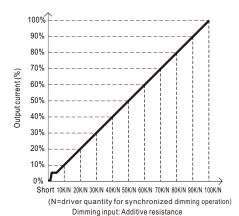
"DO NOT connect "DIM- to Vo-"



*DIM- for B/AB-Type

DA- for DA-Type PROG- for D2-Type





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 $0k\Omega$ or 0Vdc, or 10V PWM signal with 0% duty cycle.

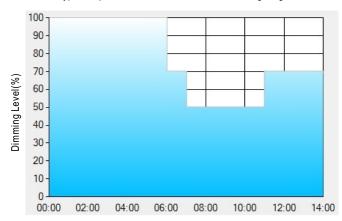
DALI Interface (primary side; for DA-Type)

- · 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



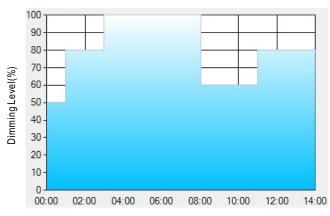
Set up for D01-Type in Smart timer dimming software program:

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

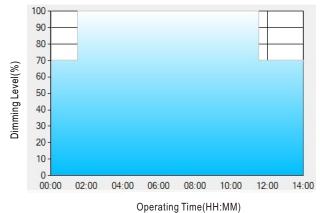
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

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%		

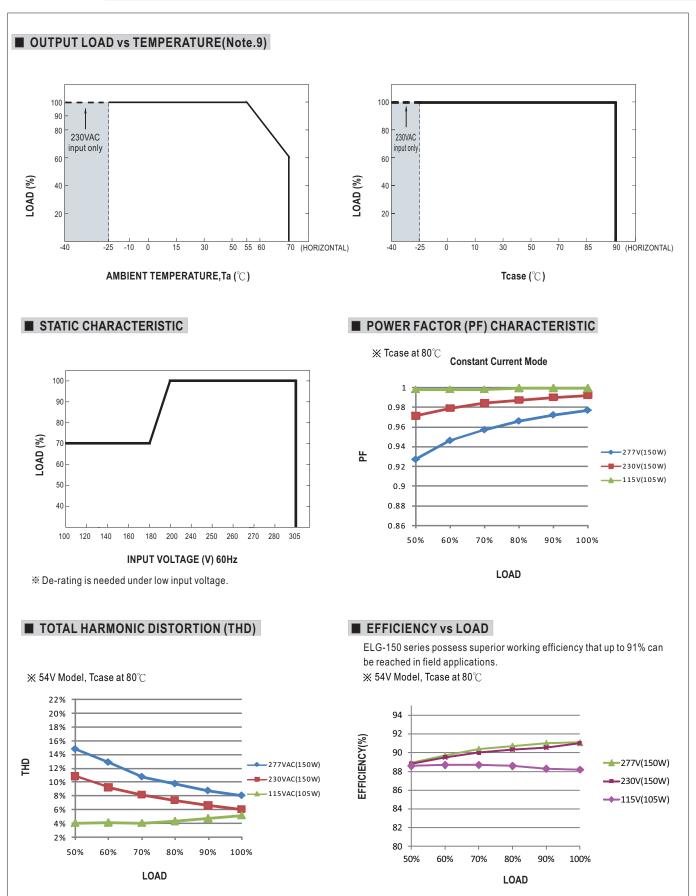
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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

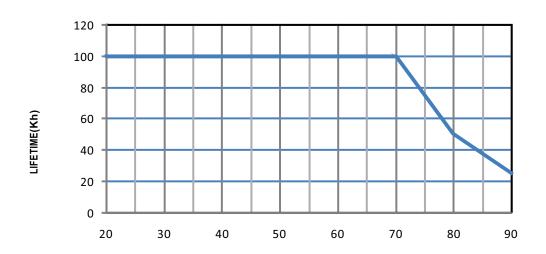
- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current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



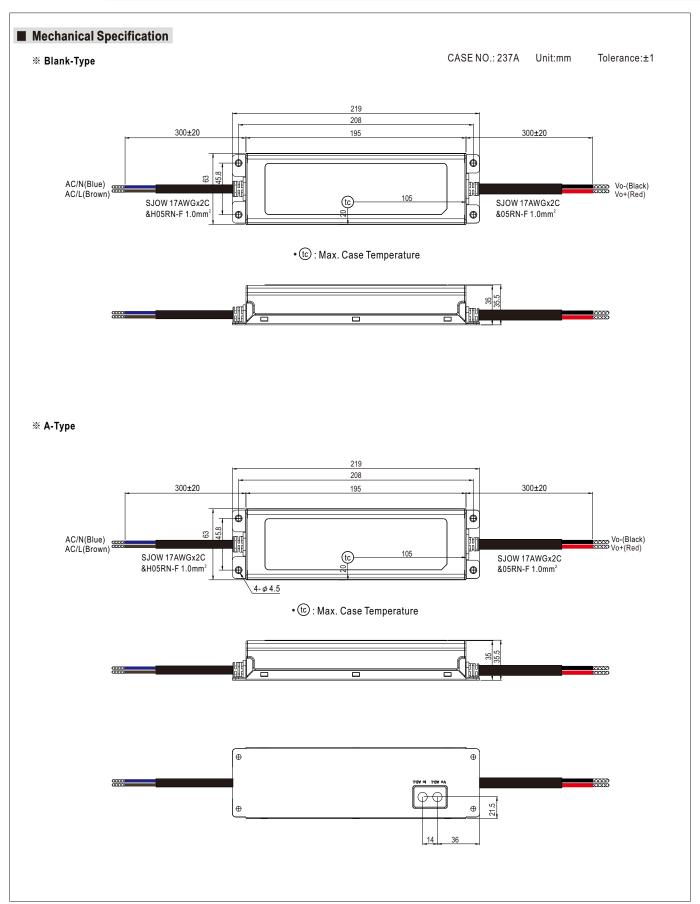


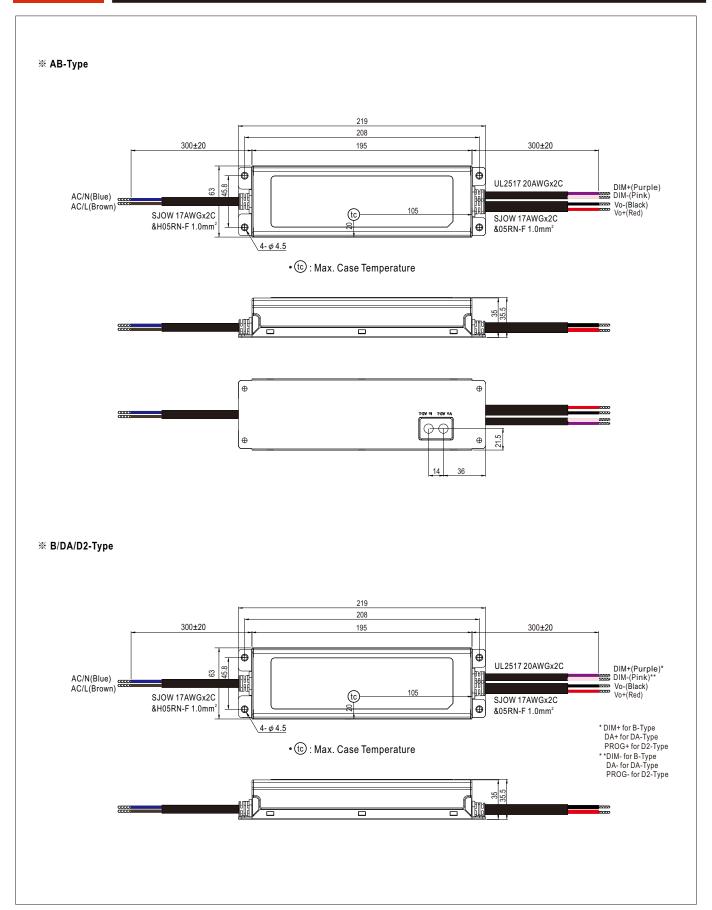
■ LIFE TIME



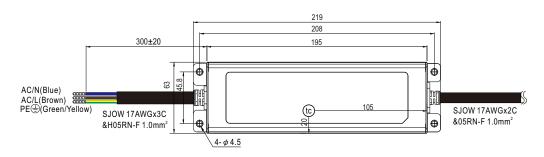
Tcase (°℃)







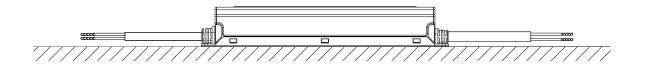
※ 3Y Model (3-wire input)



• tc : Max. Case Temperature

- $\ensuremath{\mathbb{O}}$ Note1: Please connect the case to PE for the complete EMC deliverance and safety use.
- $\ \, \bigcirc$ 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