



- 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;
 Auxiliary DC output
- Typical lifetime>50000 hours
- 5 years warranty

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	A -
	Input wiring type
	Function mode option 3Y:3-wire input for standard model
	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

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

hazardous (Classified) location.

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

GTIN CODE

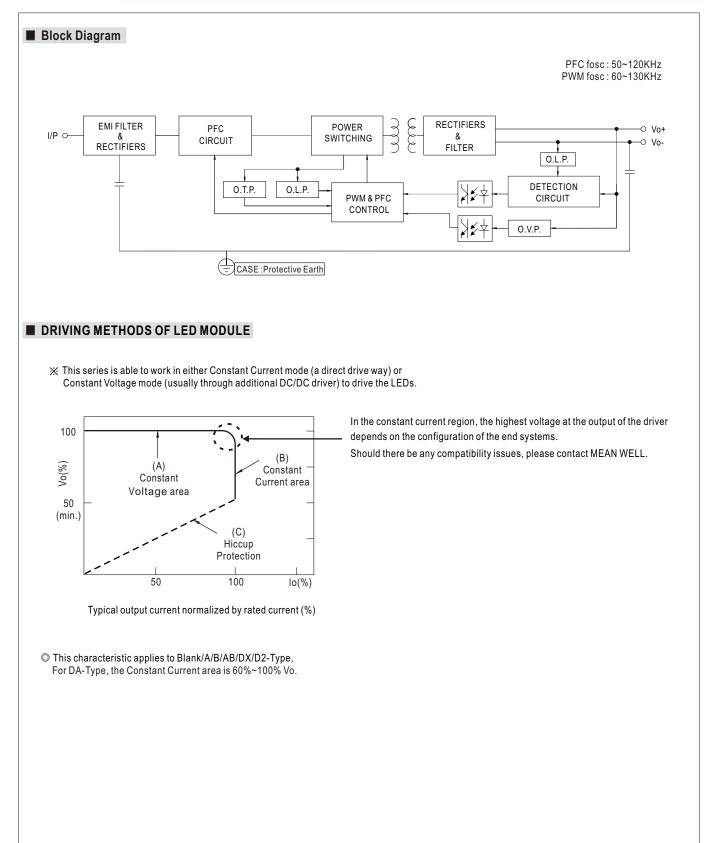


SPECIFICATION

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	-	10000	10000	10011	10010	10000		
	POWER	200VAC ~ 305VAC	45014/	450 4141	450104	450.004	454 014		
		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		
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-	Type only (via the bu	ilt-in potentiometer)					
	VOLTAGE ADJ. KANGE	10.8 ~ 13.2V	21.6 ~ 26.4V	32.4 ~ 39.6V	37.8~46.2V	43.2 ~ 52.8V	49 ~ 58V		
OUTPUT		Adjustable for A/AB-	Type only (via the bui	ilt-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		
		±3.0%	±3.0%	±2.5%	±2.5%	±2.0%	±2.0%		
	VOLTAGE TOLERANCE Note.4								
	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/115VAC 500ms, 100ms/230VAC							
	HOLD UP TIME (Typ.)	10ms/115VAC, 230VAC							
		100 ~ 305VAC 142 ~ 431VDC							
	VOLTAGE RANGE Note.5		ATIC CHARACTERIS	TIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz		,					
	TREGOLINGT RANGE			> 0.00/0771/12.001 "	land.				
	POWER FACTOR			F≥0.92/277VAC@full HARACTERISTIC" se					
		*	. ,		•				
	TOTAL HARMONIC DISTORTION			≧60%/230VAC; @loa					
		`	IAL HARMONIC DI	STORTION(THD)" se	ection)	-			
INPUT	EFFICIENCY (Typ.)	88.5%	89%	90%	90%	90%	91%		
	AC CURRENT	1.7A / 115VAC 0	.9A / 230VAC 0.7	A/277VAC					
	INRUSH CURRENT(Typ.)				30VAC; Per NEMA 41	0			
	MAX. No. of PSUs on 16A	0022001/11/00/11				•			
		3 units (circuit break	ker of type B) / 6 units	(circuit breaker of ty	rpe C) at 230VAC				
		0.75 0.0771/0.0							
	LEAKAGE CURRENT	<0.75mA/277VAC							
	NO LOAD / STANDBY	No load power const	umption <0.5W for BI	ank / A / Dx / D2-Type					
	POWER CONSUMPTION	Standby power cons	sumption <0.5W for B	/ AB / DA-Type					
		95~108%							
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT			r fault condition is ren					
PROTECTION		14 ~ 18V	28 ~ 34V	41~48V	47 ~ 54V	54 0014	50 691/		
ROILCHON	OVER VOLTAGE				47~54V	54 ~ 62V	59 ~ 68V		
			oltage, re-power on t						
	OVER TEMPERATURE		oltage, re-power on t						
	WORKING TEMP.	Tcase=-40 ~ +90℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)							
	MAX. CASE TEMP.	Tcase=+90°C							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95	5% RH						
	TEMP. COEFFICIENT								
		±0.03%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
	VIBRATION			•			0.40		
						EN/EN/AS/NZS 61347			
	SAFETY STANDARDS					A/36B/42/42A/42B/48/	4/488/54/54A/54B or		
SAFETY &					7-1,KC61347-2-13 app	iovea			
EMC	DALI STANDARDS			by request) for DA T	ypeoniy				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC	I/P-FG:2.0KVAC	O/P-FG:1.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
		Compliance to BS E	N/EN55015,BS EN/E	N61000-3-2 Class C	(@load ≥60%); BS E	N/EN61000-3-3; GB/1	17743,GB17625.1		
	EMC EMISSION	EAC TP TC 020; KC	KN15,KN61547			-			
		Compliance to BS E	N/EN61000-4-2,3,4,5	5,6,8,11; BS EN/EN61	547, light industry lev	el (surge immunity Line	e-Earth 6KV,		
	EMC IMMUNITY		TP TC 020; KC KN1						
	MTBF	2661.6K hrs min.	Telcordia SR-332 (B	ellcore) ;313.7K hrs m	nin. MIL-HDBK-217	F (25°C)			
OTHERS	DIMENSION	219*63*35.5mm (L*		,,		. /			
	PACKING								
		0.95Kg;16pcs/16.0kg/0.77CUFT							
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage under rated power delivery. Ripple & noise are measured at 20MI+z of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Derating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTICS" 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. 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/EMI_statement_en.pdf) The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fanl models for operating altitude higher than 2000m(6500ft). For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/E_N_Stype_DENC 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. To fulfill requirements of the latest ErP regulation for light source that exempt from the ErP-Directive (EU) 2019/2020 requirement, for example this model could be 								

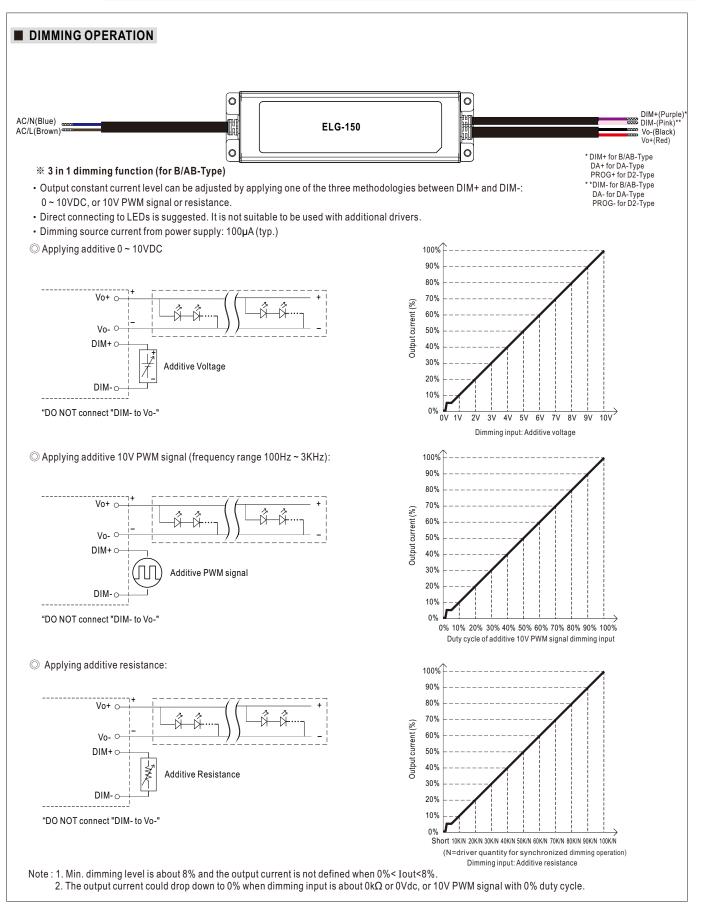


84~150W Constant Voltage + Constant Current LED Driver ELG-150 series





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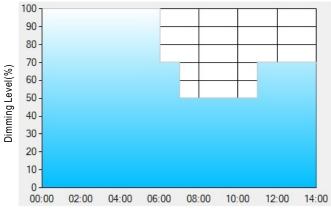
※ DALI Interface (primary side; for DA-Type)

- 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 : 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	Τ4	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.

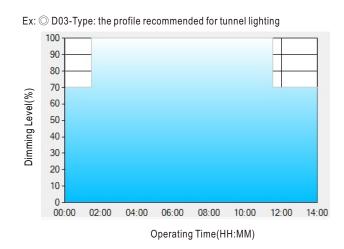
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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:

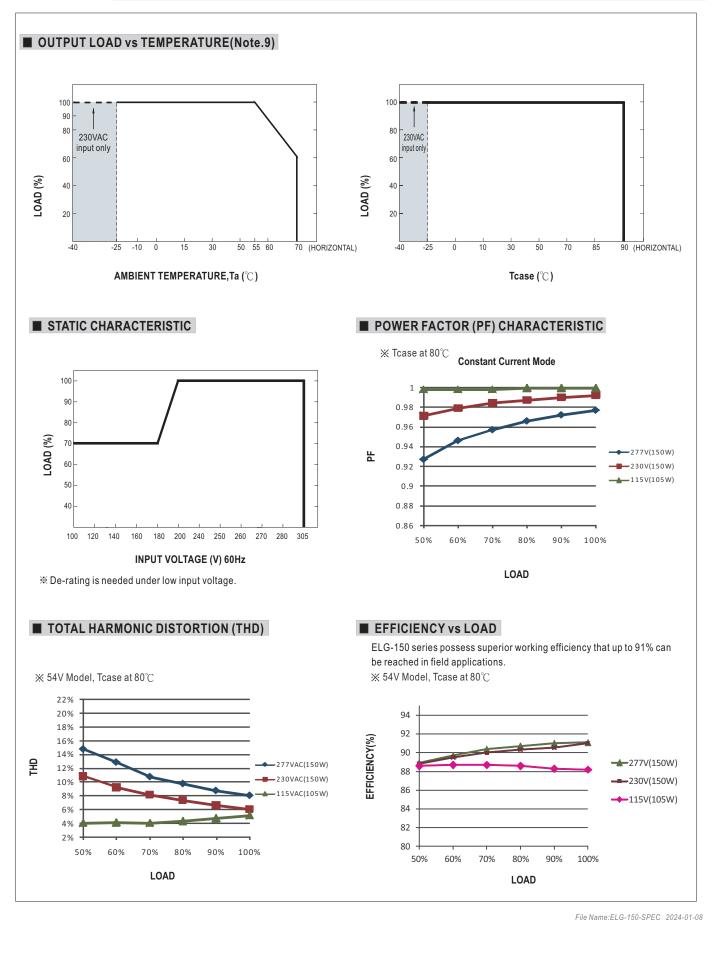
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[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.

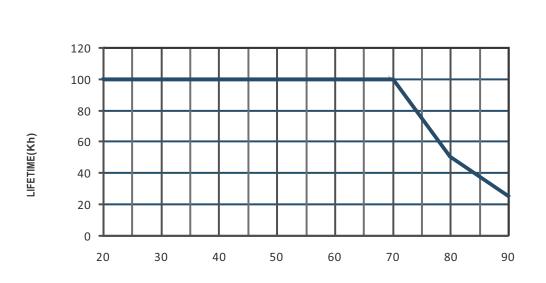


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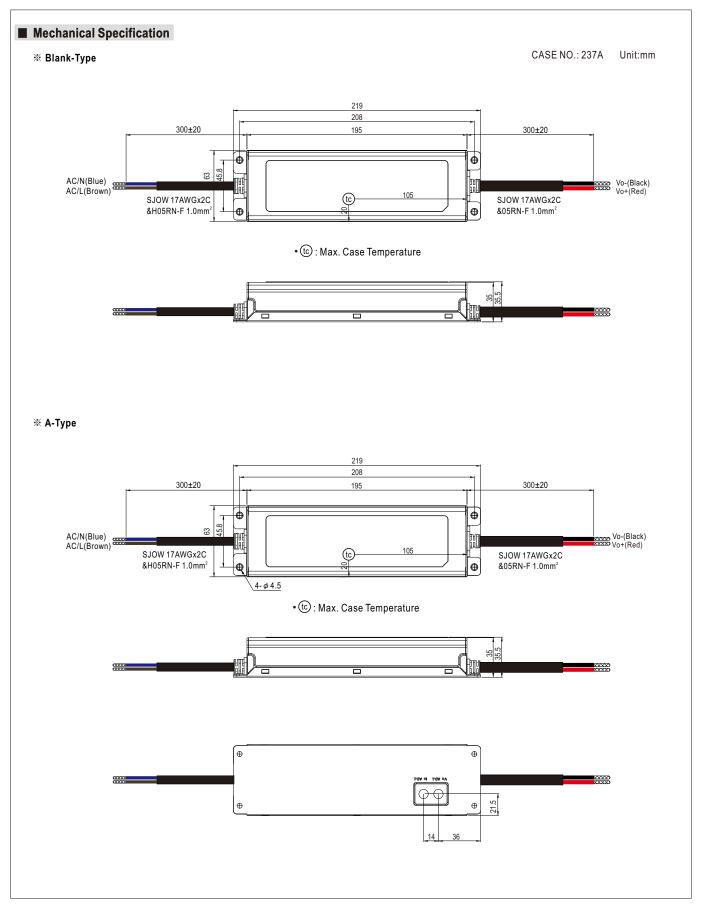


LIFE TIME



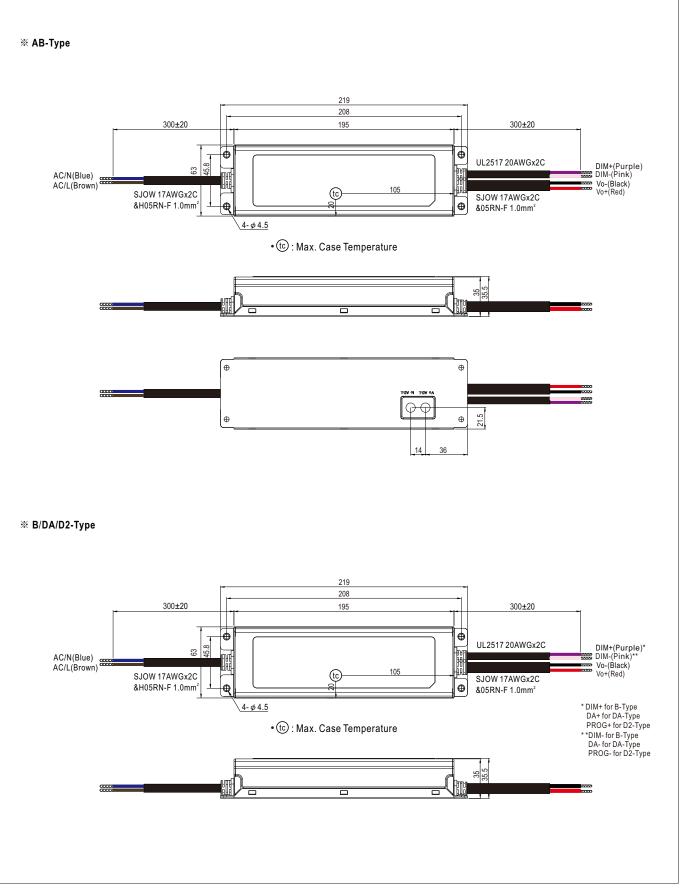
Tcase(°℃)







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