





Features

- · Constant Voltage + Constant Current mode output
- Metal housing design
- Built-in active PFC function
- No load 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

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

ELG-150 series is a 150W AC/DC LED power supply featuring the dual mode constant voltage and constant current output. ELG-150 operates from $180 \sim 305$ VAC 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 $\sim +90^{\circ}$ 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-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

ELG	- 150 - 24	
		 Function mode option 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
А	IP65	lo adjustable through built-in potentiometer.	In Stock
В	IP67	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



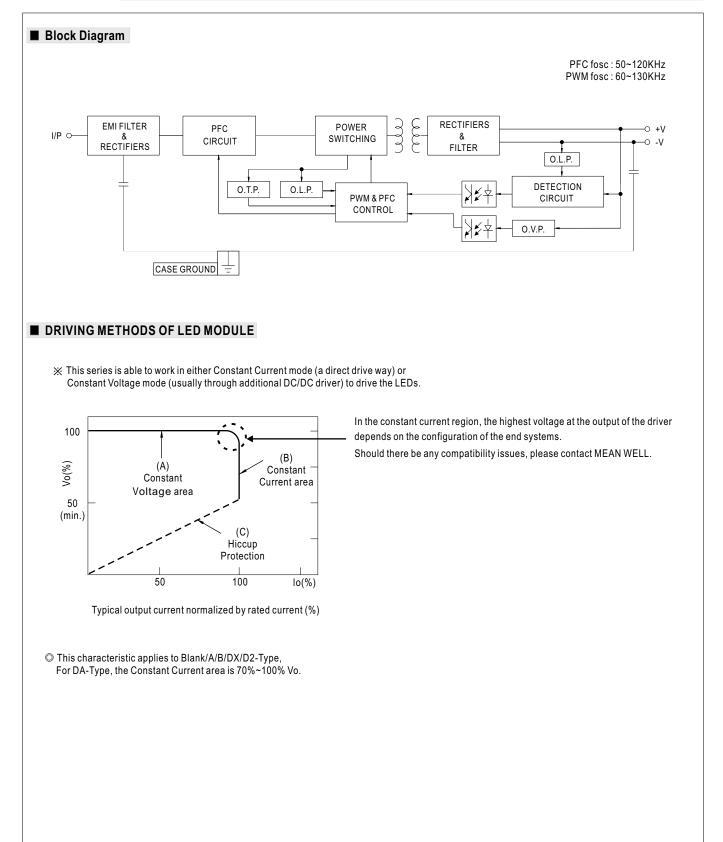
150W Constant Voltage + Constant Current LED Driver **ELG-150** series

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		12~24V	18 ~ 36V	21 ~ 42V	24~48V	27 ~ 54V		
	RATED CURRENT	10A	6.25A	4.17A	3.57A	3.13A	2.8A		
	RATED CORRENT	120W	150W	150.1W	150W	150.2W	151.2W		
	RIPPLE & NOISE (max.) Note.3		200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
	RIFFLE & NOISE (IIIdx.) Note.s				2301110-0	23011179-0	00011VP-P		
	VOLTAGE ADJ. RANGE	Adjustable for A-Type only (via the built-in potentiometer)							
OUTPUT		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	, ,,	e only (via the built-ir	, ,					
		5~10A ±3.0%	3.2 ~ 6.25A ±3.0%	2.1 ~ 4.17A ±2.5%	1.8 ~ 3.57A	1.56 ~ 3.13A	1.4 ~ 2.8A		
	VOLTAGE TOLERANCE Note.4	±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	500ms, 100ms/230VAC							
	HOLD UP TIME (Typ.)	10ms/230VAC							
	VOLTAGE RANGE Note.5	180 ~ 305VAC 254 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR	PF≧0.95/230VAC or PF≧0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)							
	TOTAL HARMONIC DISTORTION		THD<20%@≧50%load/230VAC, or @≧75%load/277VAC (Please refer to "TOTAL HARMONIC DISTORTION" section)						
INPUT	EFFICIENCY (Typ.)	88%	89%	90%	90%	90%	91%		
	AC CURRENT	0.9A/230VAC 0.	7A/277VAC	•	1	1	l		
	INRUSH CURRENT(Typ.)	COLD START 65A(twidth=550µs measured at 50% lpeak) at 230VAC; Per NEMA 410							
	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 POWER CONSUMPTION	<0.5W							
		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							
ROTECTION		14~18V	28~34V	41~48V	47~54V	54 ~ 62V	59~68V		
	OVER VOLTAGE	Shut down output v	oltage, re-power on	to recover			I		
	OVER TEMPERATURE	Shut down output voltage, re-power on to recover							
	WORKING TEMP.	Tcase=-40 ~ +90°C (Refer to "Derating Curve")							
	MAX. CASE TEMP.	Tcase=+90°C							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~60°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; ENEC EN61347-1, EN61347-2-13 independent, EN62384; IP65 or IP67 approved							
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC							
SAFETY &	ISOLATION RESISTANCE	I/P-O/P.J/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH							
EMC	EMC EMISSION			Class C ($\geq 60\%$ load)					
		· ·		. ,		nity Line-Earth 6KV/Li	ne-l ine (K\/)		
	EMC IMMUNITY MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV) 313.66Khrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	313.66Khrs min. MIL-HDBK-217F (25°C) 219*63*35.5mm (L*W*H)							
UTILINO		0.88Kg ; 16pcs/15.4	,						
	PACKING		0	pout rated current a	nd 25°C of ambient to	moraturo			
NOTE	 Please refer to "DRIVING M under rated power delivery. Ripple & noise are measured Tolerance : includes set up t De-rating may be needed u Length of set up time is me The power supply is consid complete installation, the fir The model certified for CCC This series meets the typica 	NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 70%~100% of maximum voltage wer delivery. are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Jdes set up tolerance, line regulation and load regulation. be needed under low input voltages. Please refer to "STATIC CHARACTERISTICS" sections for details. p time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. ply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the lation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. ified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details. ets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to) point (or TMP, per DLC), is about 75℃ or less. p the warranty statement on MEAN WELL's website at http://www.meanwell.com							

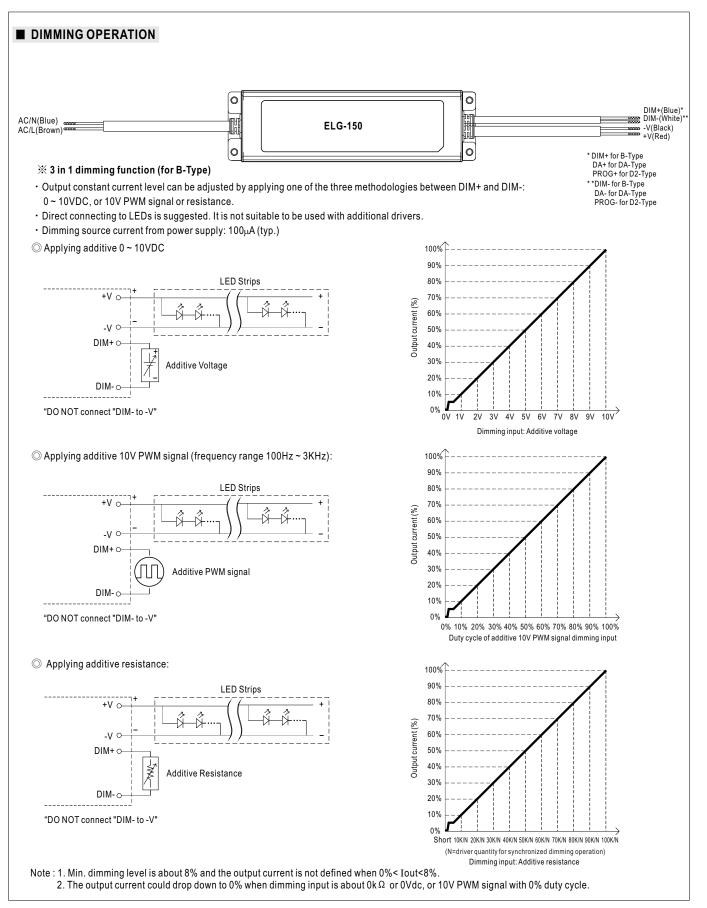


150W Constant Voltage + Constant Current LED Driver





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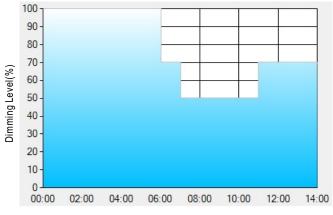
※ DALI Interface (primary side; for DA-Type)

- 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:

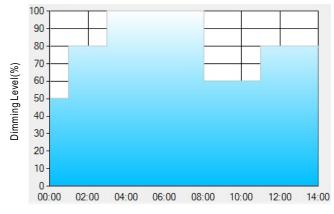
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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	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.

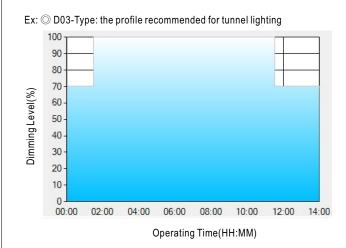
[3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.

[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.



ELG-150 series



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.

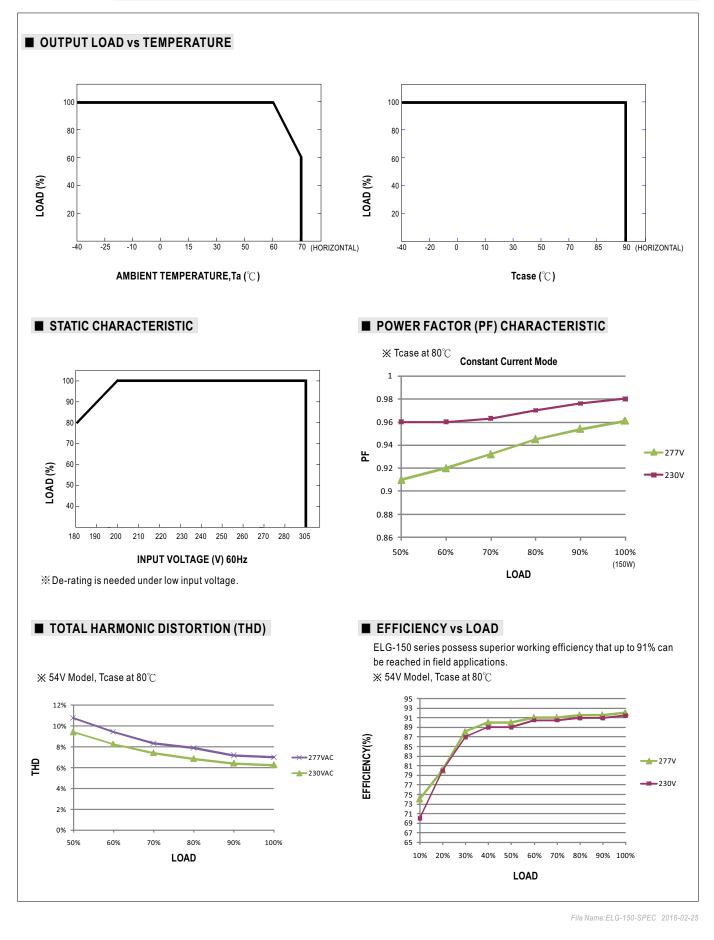
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

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

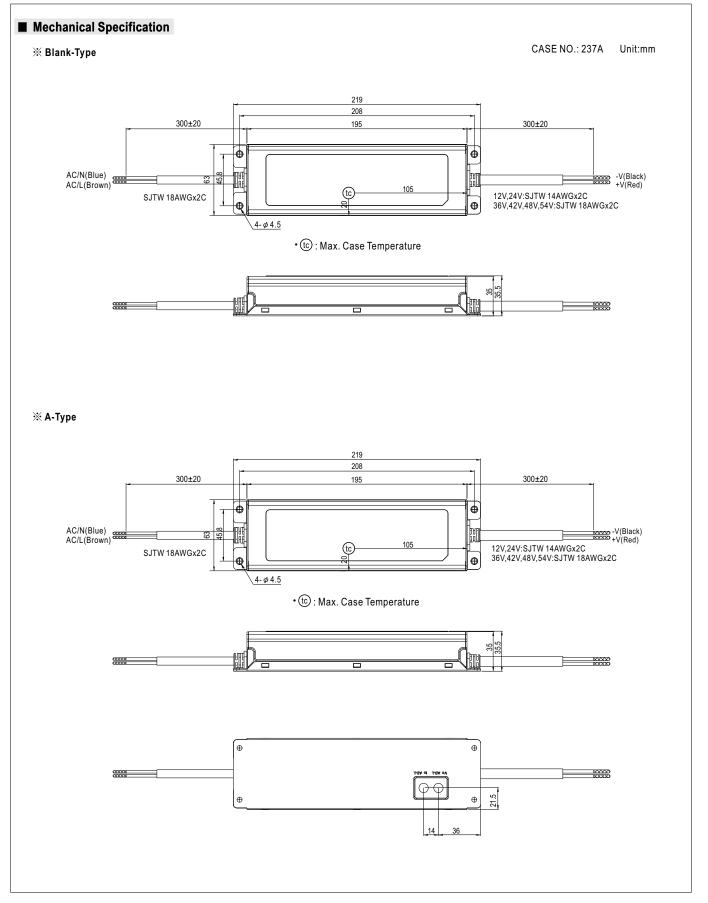
[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.

[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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※ B/DA/D2-Type

