





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 output. ELG-150 operates from $180 \sim 295$ 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	
	 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
A	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



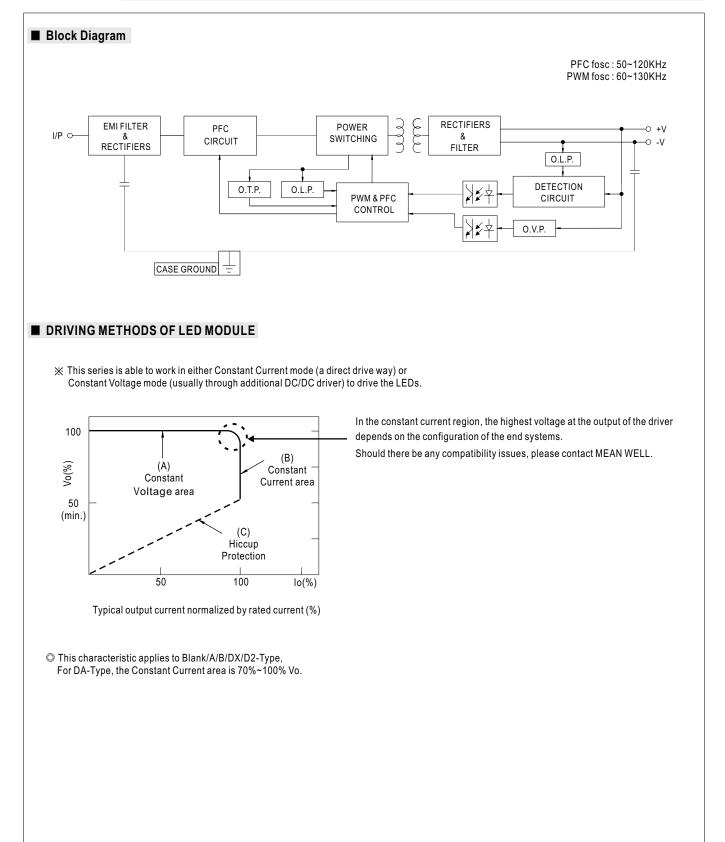
150W Constant Voltage + Constant Current LED Driver **ELG-150** series

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 POWER	120W	150W	150.1W	150W	150.2W	151.2W		
	RIPPLE & NOISE (max.) Note.3		200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
			pe only (via the built-i		20000000	20011179.9	occurrp p		
	VOLTAGE ADJ. RANGE			32.4 ~ 39.6V	07.0 40.014	40.0 50.01/	40 501		
OUTPUT		10.8 ~ 13.2V	21.6 ~ 26.4V		37.8 ~ 46.2V	43.2 ~ 52.8V	49 ~ 58V		
	CURRENT ADJ. RANGE	, ,,	e only (via the built-ir	, ,	4.0.0574	1.56 ~ 3.13A	4.4.004		
	5~10A 3.2~6.25A 2.1~4.17A 1.8~3.57A 1.						1.4 ~ 2.8A		
	VOLTAGE TOLERANCE Note.4		±3.0%	±2.5%	±2.5%	±2.0%	±2.0%		
		±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		254 ~ 417VDC ATIC CHARACTERIS	STIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR		or PF≧0.92/277VAC@ WER FACTOR (PF) C	€ @full load HARACTERISTIC" se	ection)				
	TOTAL HARMONIC DISTORTION		oad/230VAC, or @≧ TAL HARMONIC DI	75%load/277VAC STORTION" section)					
INPUT	EFFICIENCY (Typ.)	88%	89%	90%	90%	90%	91%		
	AC CURRENT	0.9A/230VAC 0.	7A/277VAC		ł				
	INRUSH CURRENT(Typ.)	COLD START 65A(twidth=550µs measured at 50% Ipeak) 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	•	oltage, re-power on						
	WORKING TEMP.		Refer to "Derating Cu						
	MAX. CASE TEMP.	Tcase=+90°C		,					
	WORKING HUMIDITY	20 ~ 95% RH non-co	ondensina						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 9							
	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	,	2 71	U		ependent, EN62384; I	P65 or IP67 approved		
	WITHSTAND VOLTAGE	()1 //		,	-1, EN01347-2-13 IIId	ependent, EN02004, I			
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
EMC				Class C (\geq 50% load)					
	EMC EMISSION	· ·		. ,		nity Line Forth 6KV/ L	no lino 4K\/)		
		Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)							
	MTBF	313.66Khrs min. MIL-HDBK-217F (25℃)							
OTHERS	DIMENSION	219*63*35.5mm (L*	,						
	PACKING	0.88Kg ; 16pcs/15.4	0						
NOTE	 All parameters NOT special 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 typical 	AETHODS OF LED d at 20MHz of bandw olerance, line regulati inder low input voltag asured at first cold s ered as a componer hal equipment manuf C(GB19510.14, GB19	MODULE". For DA- idth by using a 12" tv on and load regulatic ges. Please refer to ' tart. Turning ON/OF it that will be operate acturers must re-que 2510.1, GB17743 ar	Fype, Constant Curre visted pair-wire termin n. STATIC CHARACTE F the power supply n ed in combination wit alify EMC Directive on to GB17625.1) is an	ent region is 70%~100 nated with a 0.1uf & 47 ERISTICS" sections for nay lead to increase of h final equipment. Sir n the complete installa optional model . Plea	% of maximum volta 'uf parallel capacitor. or details. of the set up time. ice EMC performance ation again. se contact MEAN WE	e will be affected by t		

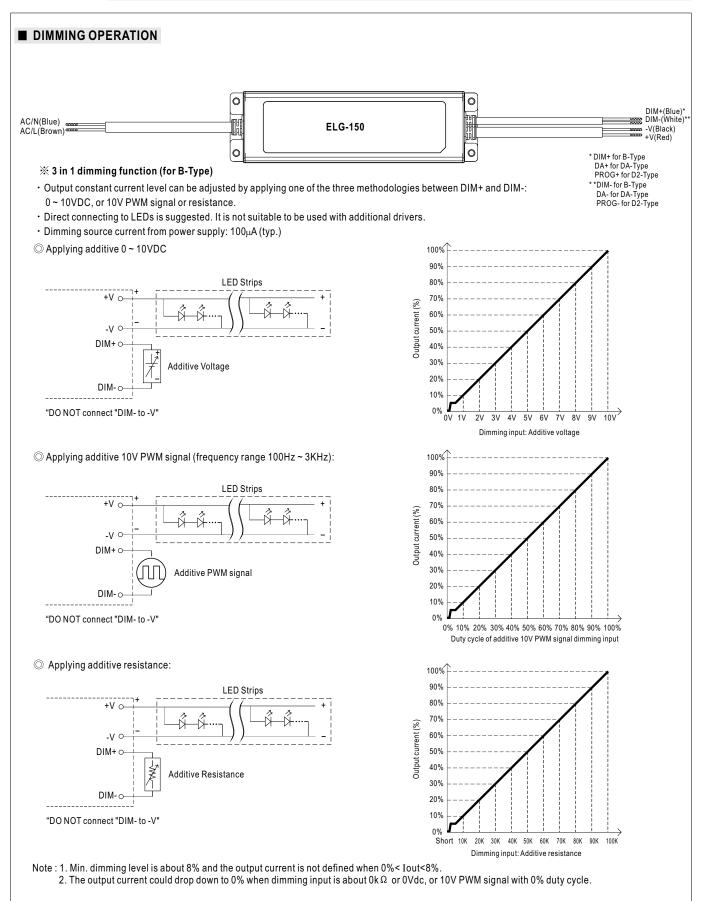


150W Constant Voltage + Constant Current LED Driver





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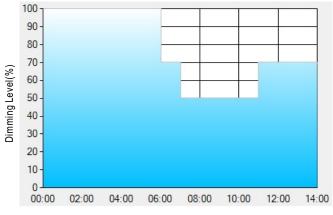
※ DALI Interface (primary side; for DA-Type)

- 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:

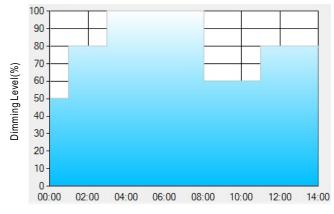
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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.

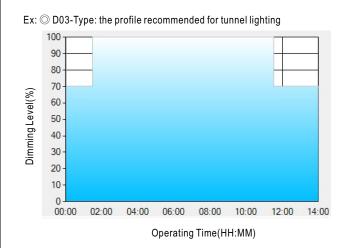
[3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.

[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.

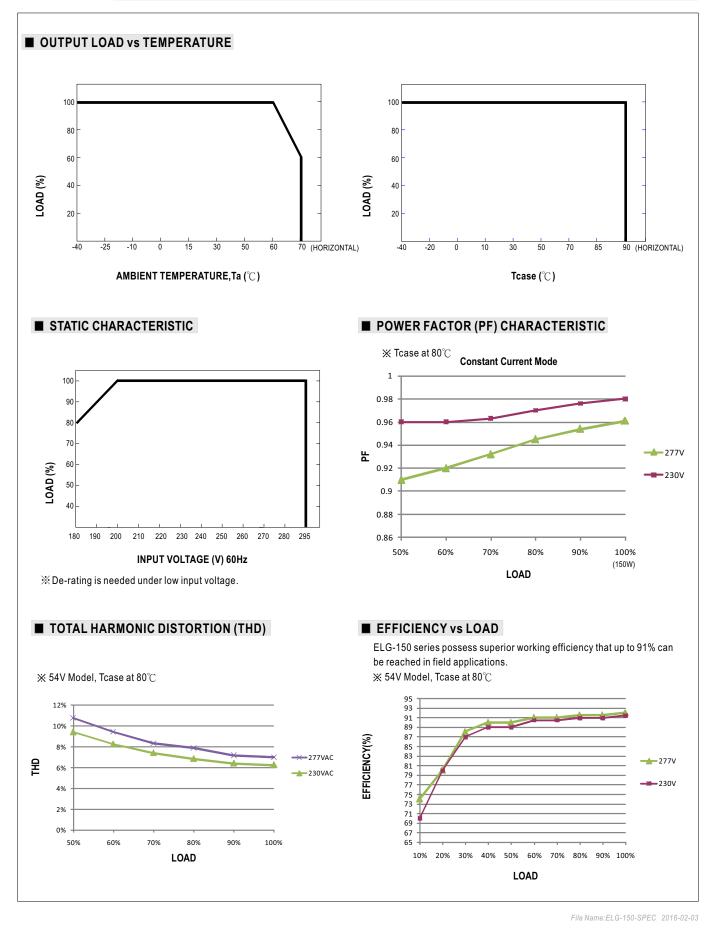
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

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

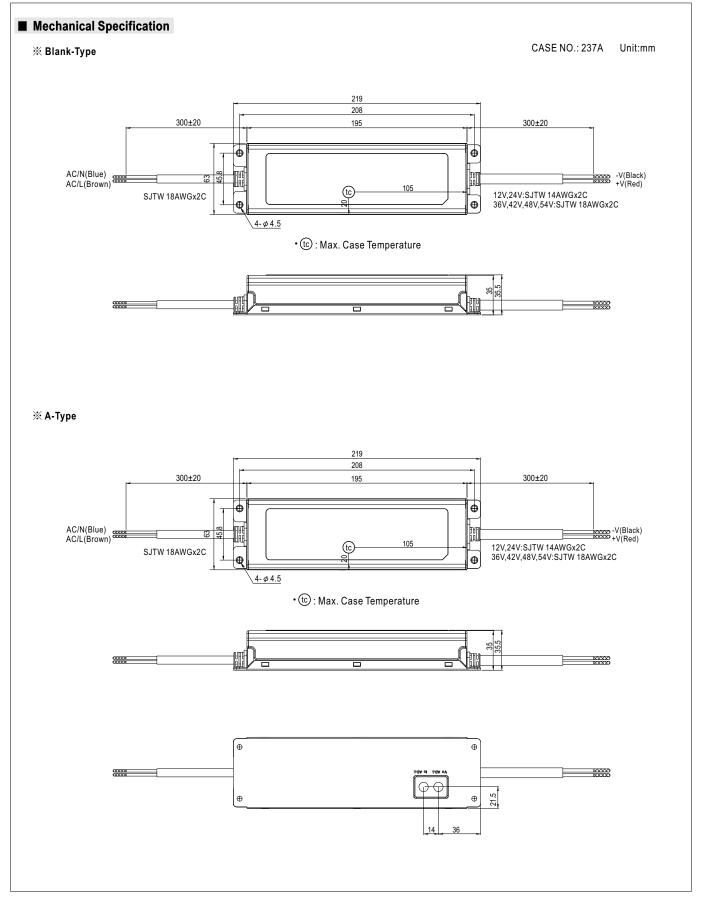
[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.

[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

