























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

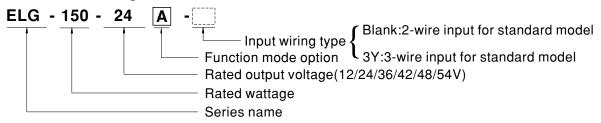
Applications

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

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
BE	IP67	3 in 1 dimming function and Auxiliary DC output	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	
		RENT 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	
	RATED CURRENT(for BE Type only)		8A	5.6A	3.73A	3.2A	2.8A	2.5A	
			100VAC ~ 180VAC						
		(For All the Types)	84W	105W	105W	105W	105W	105W	
	RATED POWER		200VAC ~ 305VAC						
	POWER	(Except for BE Type)		150W	150.1W	150W	150.2W	151.2W	
		(For BE Type only)		134.4W	134.28W	134.4W	134.4W	135W	
	RIPPLE & NOISE (max.) Note.3		150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
	VOLTAGE ADJ. RANGE CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.4 LINE REGULATION				<u> </u>	2001117 P	200πτρ ρ	COOM V P P	
			Adjustable for A/AB-Type only (via the built-in potentiometer) 10.8 ~ 13.2V						
OUTPUT			10.8 ~ 13.2V						
			5 ~ 10A			1.0 . 2.574	1.50 . 2.124	1.4.2.94	
				3.2 ~ 6.25A ±3.0%	2.1 ~ 4.17A ±2.5%	1.8 ~ 3.57A ±2.5%	1.56 ~ 3.13A ±2.0%	1.4 ~ 2.8A ±2.0%	
			±0.5%	±0.5%		±0.5%	±0.5%	±0.5%	
				±0.5%	±0.5% ±1.0%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION		±2.0%	I	1	±0.5%	150.5%	±0.5%	
	AUXILIARY DC OUTPUT		Nominal 15V(deviation 11.5~15.5V)@0.3A for BE-Type only 1600ms, 80ms/115VAC 500ms, 100ms/230VAC						
	SETUP, RISE TIME Note.6								
	HOLD UP TIME	: (1yp.)	10ms/115VAC, 230VAC						
	VOLTAGE RANGE Note.5		100 ~ 305VAC						
			47 ~ 63Hz						
	FREQUENCY RANGE								
	POWER FACTOR		PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMON	IC DISTORTION	THD< 20%(@load≧50%/115VC; @load≧60%/230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
INPUT	EFFICIENCY (T	im l	88%	89%	90%	90%	90%	91%	
				87%	88%	88%	88%	89%	
	AC CURRENT	p.)(for BE Type only)		1	A/277VAC	00 70	00%	0970	
						30\/AC. Per NEMA /11	n		
	INRUSH CURRENT(Typ.) 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 CUI		<0.75mA / 277VAC						
					- 1 / A / D / DO T				
	NO LOAD / ST/ POWER CONS		No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA-Type						
	OVER CURREN		95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed						
	SHORT CIRCU	IT		ers automatically afte					
PROTECTION	OVER VOLTAG	GE	14 ~ 18V	28 ~ 34V	41 ~ 48V	47 ~ 54V	54 ~ 62V	59 ~ 68V	
				oltage, re-power on t					
	OVER TEMPERATURE		Shut down output voltage, re-power on to recover						
	WORKING TEN		Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TE		Tcase=+90°C						
ENVIRONMENT	WORKING HUI		20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY		-40 ~ +80°C, 10 ~ 95% RH						
	TEMP. COEFFI	CIENT	±0.03%/°C (0 ~ 60°C)						
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
	SAFETY STAN	DARDS	UL8750(type"HL")(except for BE-type), CSA C22.2 No. 250.13-12; IEC/EN/AS/NZS 61347-1,IEC/EN/AS/NZS 61347-2-13 independent, EN62384,BIS IS15885(for 12/12B/12DA/24/24B/24DA/36A/42/42A/48A/54 only), EAC TP TC 004,GB19510.1,GB19510.14; IP65 or IP67; KC61347-1,KC61347-2-13 approved						
SAFETY &									
EMC	WITHSTAND V		I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC						
	ISOLATION RE	SISTANCE				RH			
	EMC EMISSION		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3; GB17743, GB17625.1,EAC TP TC 020; KC KN15,KN615-						
	EMC IMMUNIT	Υ	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV), EAC TP TC 020; KC KN15, KN615						
OTHERS	MTBF		899.8K hrs min. Telcordia SR-332 (Bellcore) 313.66Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION		219*63*35.5mm (L*\	•			·		
	PACKING		0.95Kg; 16pcs/16.0kg	kg/0.77CUFT					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. Please refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage under rated power delivery. 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.								
	4. Tolerance: 5. De-rating m 6. Length of se 7. The driver is complete ins 8. This series i 9. Please refer 10. The ambier 11. For any ap	includes set up to any be needed un to tup time is meas considered as stallation, the finamets the typica to the warranty at temperature diplication note a	tolerance, line regulat nder low input voltage assured at first cold state a component that will all equipment manufal life expectancy of statement on MEAN erating of 3.5°C/1000 and IP water proof fu	ion and load regulat se. Please refer to "Sart. Turning ON/OFF be operated in com cturers must re-quali 50,000 hours of oper WELL's website at m with fanless mode nction installation co	ion. STATIC CHARACTE the driver may lead bination with final ec fy EMC Directive on ration when Tcase, p. http://www.meanwell els and of 5°C/1000r	RISTICS" sections fo to increase of the se juipment. Since EMC the complete installa particularly (to) point (o	r details. up time. performance will be tion again. or TMP, per DLC), is operating altitude hig	affected by the about $80^\circ\!\!\mathrm{C}$ or less.	
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84~150W Constant Voltage + Constant Current LED Driver **ELG-150** series

