























■ 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

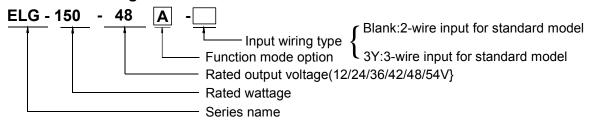
Description

ELG-150-48 is a 150W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-150 operates from 100~305VAC. 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

■ Applications

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

■ Model Encoding



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

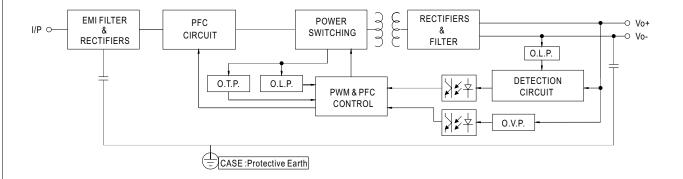
SPECIFICATION

			_		
MODEL	NODEL		ELG-150-48		
	DC VOLTAGE		48V		
	CONSTANT CURRENT REGION Note.2 RATED CURRENT		24 ~ 48V		
			3.13A		
	RATED CURREI	NT(for BE Type only)	2.8A		
			100VAC ~ 180VAC		
		(For All the Types)			
	RATED	,,,,,	200VAC ~ 305VAC		
	POWER	(Except for BE Type)			
	(For BE Type only)				
	RIPPLE & NOISE (max.) Note.3		250mVp-p		
	VOLTAGE ADJ. RANGE CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.4		Adjustable for A/AB-Type only (via the built-in potentiometer)		
OUTDUT			43.2 ~ 52.8V		
OUTPUT			Adjustable for A/AB-Type only (via the built-in potentiometer)		
			1.56 ~ 3.13A		
			±2.0%		
	LINE REGULATION		±0.5%		
	LOAD REGULATION		±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 (Typ.)		10ms/115VAC, 230VAC		
	VOLTAGE RANGE Note.5		100 ~ 305VAC 142 ~ 431VDC		
			(Please refer to "STATIC CHARACTERISTIC" section)		
	FREQUENCY RANGE		47 ~ 63Hz		
	POWER FACTOR		$PF \ge 0.97/115$ VAC, $PF \ge 0.95/230$ VAC, $PF \ge 0.92/277$ VAC@full load		
	POWER FACIO	·K	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)		
	TOTAL HARMON	IIC DISTORTION	THD< 20%(@load≥50%/115VC; @load≥60%/230VAC; @load≥75%/277VAC)		
	TOTAL HARMONIC DISTORTION		(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)		
INPUT	EFFICIENCY (Typ.)		90%		
	EFFICIENCY (Typ.)(for BE Type only)		88%		
	AC CURRENT		1.7A / 115VAC 0.9A / 230VAC 0.7A/277VAC		
	INRUSH CURRENT(Typ.)		COLD START 65A(twidth=550 as measured at 50% lpeak) at 230VAC; Per NEMA 410		
			OCED STAIL OUA (Wildin-300 / S Illeasured at 50 % Ipean) at 200 VAO, T et NEWA 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 / STANDBY POWER CONSUMPTION		No load power consumption <0.5W for Blank / A / Dx / D2-Type		
			Standby power consumption <0.5W for B / AB / DA-Type		
	OVER CURRENT SHORT CIRCUIT		95 ~ 108%		
			Constant current limiting, recovers automatically after fault condition is removed		
			Hiccup mode, recovers automatically after fault condition is removed		
PROTECTION	OHORT OIRCOTT		54 ~ 62V		
	OVER VOLTAGE		Shut down output voltage, re-power on to recover		
	OVER TEMPERATURE		Shut down output voltage, re-power on to recover		
			Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)		
	WORKING TEMP.				
	MAX. CASE TEMP.		Tcase=+90°C		
	WORKING HUMIDITY		20 ~ 95% RH non-condensing		
ENVIRONMENT	STORAGE TEMP., HUMIDITY		-40 ~ +80°C, 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")(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),		
SAFETY &			EAC TP TC 004,GB19510.1,GB19510.14; IP65 or IP67; KC61347-1,KC61347-2-13 approved		
	DALI STANDA	ARDS	Compliance to IEC62386-101,102,207 for DA-Type only		
t	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC		
	ISOLATION RES	SISTANCE	//P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH		
	EMC EMISSION		Compliance to EN55015, EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3; GB17743, GB17625.1, EAC TPTC020; KCKN15, KN61541		
	EMC IMMUNITY		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, KN61547		
	MTBF		899.8K hrs min. Telcordia SR-332 (Bellcore) 313.66Khrs min. MIL-HDBK-217F (25℃)		
	DIMENSION		219*63*35.5mm (L*W*H)		
	PACKING		0.95Kg; 16pcs/16.0kg/0.77CUFT		
NOTE	1. All parameter		r mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. ETHODS 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 : includes set up tolerance, line regulation and load regulation.				
			nder low input voltages. Please refer to "STATIC CHARACTERISTICS" sections for details. sured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.		
	 6. 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. 7. 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.				
			life expectancy of >50,000 hours of operation when Tcase, particularly to point (or TMP, per DLC), is about 80°C or less.		
			statement on MEAN WELL's website at http://www.meanwell.com . erating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).		
	11. For any app	plication note a	nd IP water proof function installation caution, please refer our user manual before using.		
	https://www	w.meanwell.co	m/Upload/PDF/LED_EN.pdf		
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84~150W Constant Voltage + Constant Current LED Driver **ELG-150-48**

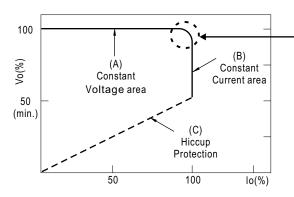
■ Block Diagram

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.

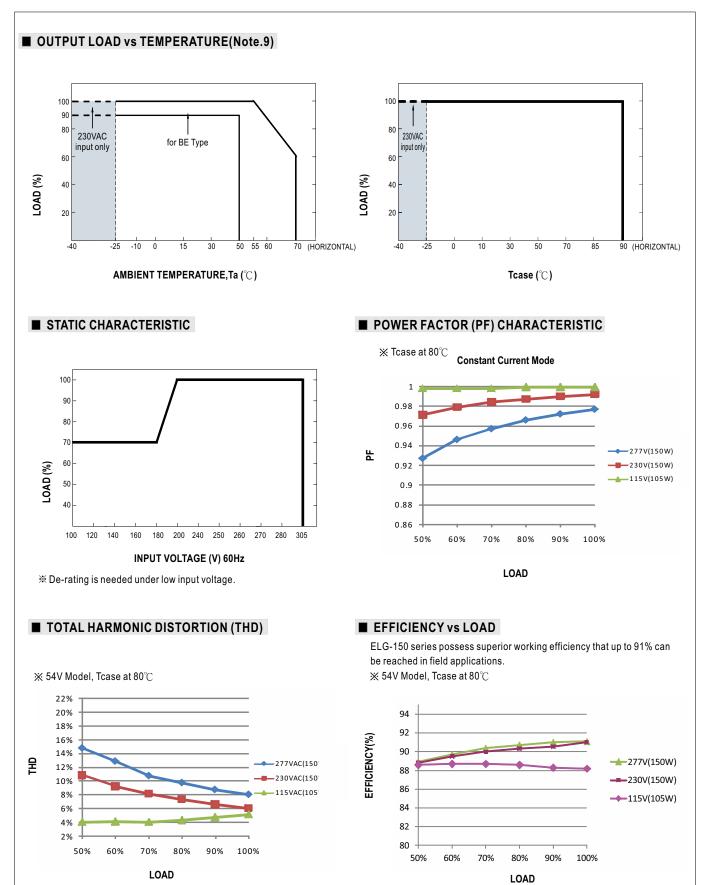


Typical output current normalized by rated current (%)

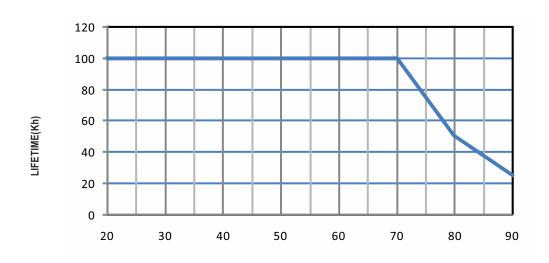
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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





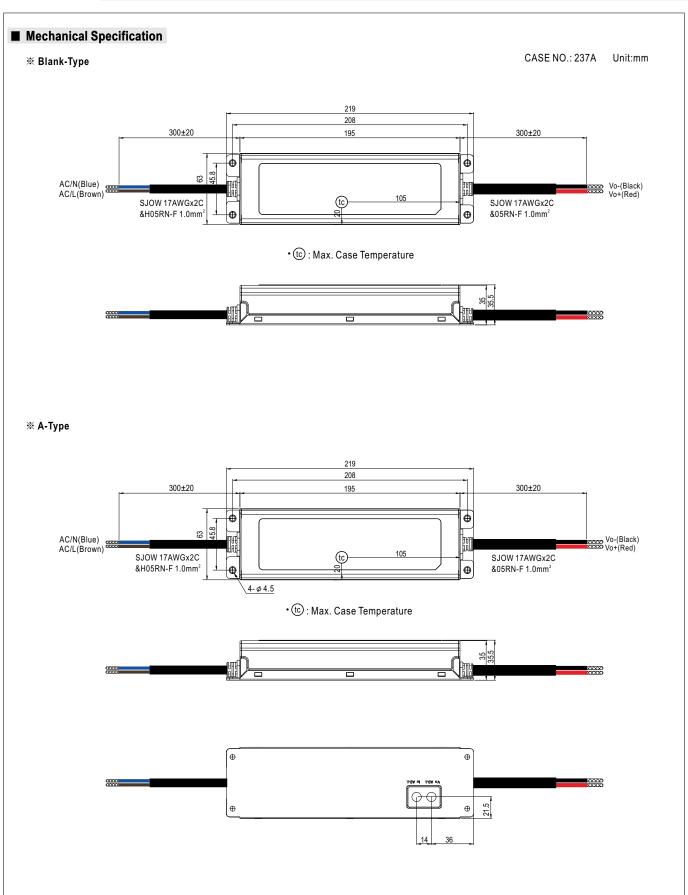
■ LIFE TIME



Tcase ($^{\circ}\!\mathbb{C}$)



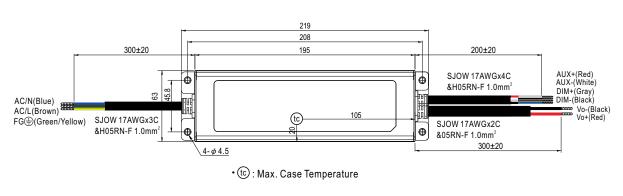
84~150W Constant Voltage + Constant Current LED Driver **ELG-150-48**





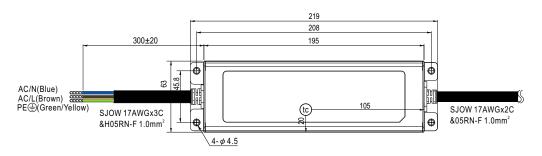
84~150W Constant Voltage + Constant Current LED Driver **ELG-150-48**

※ BE-Type





※ 3Y Model (3-wire input)



• (tc): Max. Case Temperature

- $\ \, \bigcirc$ Note1: Please connect the case to PE for the complete EMC deliverance and safety use.
- O Note2: Please contact MEAN WELL for input wiring option with PE.

■ INSTALLATION MANUAL

Please refer to: http://www.meanwell.com/manual.html

Remark: use with industrial switches as listed below:

- 1. DS-3T0506HP-E/HS
- 2. DS-3T0510HP-E/HS
- 2. DS-310310HP-E/HS 3. DS-3T0306HP-E/HS 4. DS-3T0310HP-E/HS 5. DS-3T0306P 6. DS-3T0310P

