

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











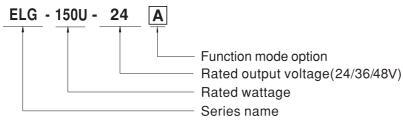
Features

- · Constant Voltage + Constant Current mode output
- · Metal housing design with functional Ground
- · Built-in active PFC function
- No load / Standby power consumption < 0.5W
- Suitable for use in Dry, Damp and Wet Locations
- Function options: output adjustable via potentiometer;
 3 in 1 dimming (dim-to-off)
- 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.

■ Model Encoding



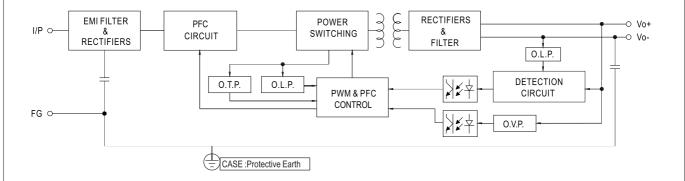
Type	Function	Note
Blank	lo and Vo fixed.	By Request
Α	Io and Vo adjustable through built-in potentiometer.	By Request
В	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	By Request

SPECIFICATION

MODEL		ELG-150U-24	ELG-150U-36	ELG-150U-48		
	DC VOLTAGE	24V	36V	48V		
ОИТРИТ	CONSTANT CURRENT REGION Note.2	12 ~ 24V	18 ~ 36V	24 ~ 48V		
	RATED CURRENT	6.25A	4.17A	3.13A		
	RATED POWER	150W	150.1W	150.2W		
	RIPPLE & NOISE (max.) Note.3	200mVp-p	250mVp-p	250mVp-p		
	VOLTAGE ADJ. RANGE CURRENT ADJ. RANGE	Adjustable for A-Type only (via the built-in potentiometer)				
		21.6 ~ 26.4V	32.4 ~ 39.6V	43.2 ~ 52.8V		
		Adjustable for A-Type only (via the built-in p	ootentiometer)			
		3.2 ~ 6.25A	2.1 ~ 4.17A	1.56 ~ 3.13A		
	VOLTAGE TOLERANCE Note.4	±3.0%	±2.5%	±2.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1.0%	±1.0%	±0.5%		
	SETUP, RISE TIME Note.6	1600ms, 80ms/120VAC 500ms, 100ms	s/230VAC			
	HOLD UP TIME (Typ.)	10ms/120VAC, 230VAC				
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR	PF ≥ 0.97/120VAC, PF≥ 0.95/230VAC, PF≥ 0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)				
	TOTAL HARMONIC DISTORTION	THD<20%(@load≧50%/120VC; @load≧60%/230VAC; @load≧75%/277VAC) (Please refer to TOTAL HARMONIC DISTORTION(THD) section)				
NPUT	EFFICIENCY (Typ.)	89%	90%	90%		
	AC CURRENT	1.7A / 120VAC 0.9A / 230VAC 0.7A / 277VAC				
	INRUSH CURRENT(Typ.)	COLD START 65A(twidth=1ms measured at 10% lpeak) at 277VAC; Per NEMA 410				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	NO LOAD / STANDBY POWER CONSUMPTION	<0.5W				
PROTECTION	OVER GURRENT	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				
	OVER VOLTAGE	28 ~ 34V	41 ~ 48V	54 ~ 62V		
,	OVERVOLIAGE	Shut down output voltage, re-power on to	recover			
	OVER TEMPERATURE	Shut down output voltage with auto-recovery or re-power on to recover				
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to OUTPUT LOAD vs TEMPERATURE section)				
	MAX. CASE TEMP.	Tcase=+85°C				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	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 &	SAFETY STANDARDS	Design refer to UL8750 (type"HL"),CSA C22.22 No.250.13-12				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC				
MC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH				
-	EMC EMISSION	Design refer to FCC part 15 class A				
	EMC IMMUNITY	Design refer to IEC61000-4-2,3,4,5,6,8,11;EN61547,light industry level				
OTHERS	MTBF	899.8K hrs min. Telcordia SR-332 (Bellcore) 313.66Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	219*63*35.5mm (L*W*H)				
NOTE	PACKING 0.95Kg; 16pcs/16.0kg/0.77CUFT 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". 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. 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTICS" sections for details. 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. 8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 75°C or less. 9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com					

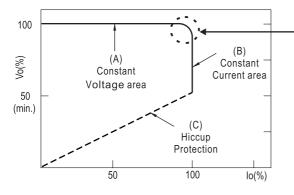
■ Block Diagram

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.

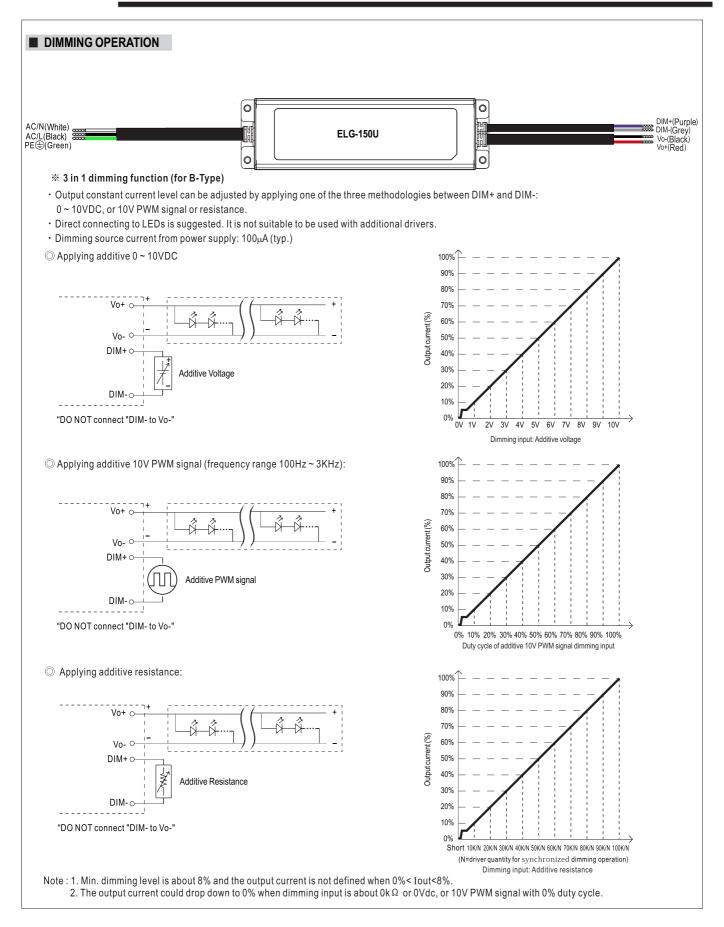


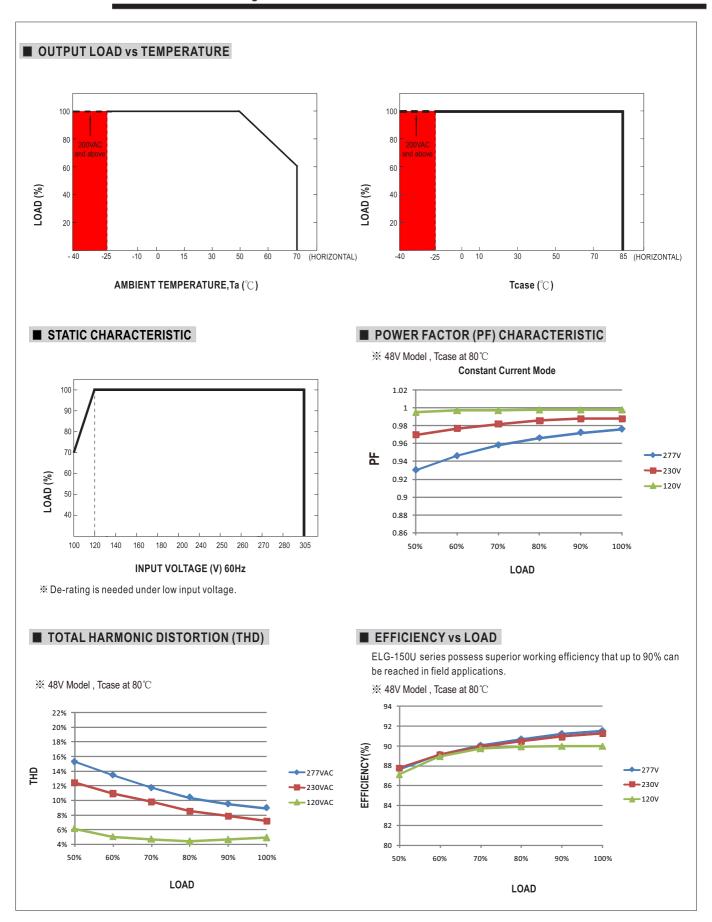
Typical output current normalized by rated current (%)

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

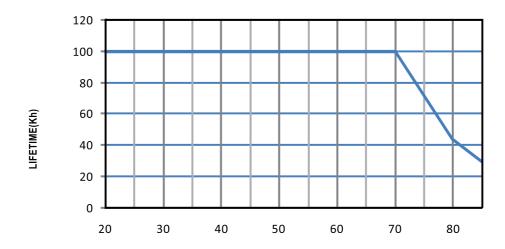
Should there be any compatibility issues, please contact MEAN WELL.

ELG-150U series









Tcase (°C)

ELG-150U series

