



#### 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</li>
- · 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.

 $(\mathbf{R})$ 

#### GTIN CODE

MW Search: <a href="https://www.meanwell.com/serviceGTIN.aspx">https://www.meanwell.com/serviceGTIN.aspx</a>



Туре	Function	Note
Blank	lo and Vo fixed.	By Request
A	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



ELG-150U series

#### SPECIFICATION

MODEL		ELG-150U-24	ELG-150U-36	ELG-150U-48		
	DC VOLTAGE	24V	36V	48V		
F	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		
		Adjustable for A-Type only (via the built-in potentiometer)				
	VOLTAGE ADJ. RANGE	21.6 ~ 26.4V	32.4 ~ 39.6V	43.2 ~ 52.8V		
				43.2~52.8V		
		Adjustable for A-Type only (via the built-i	, ,	4.50 0.404		
		3.2 ~ 6.25A ±3.0%	2.1 ~ 4.17A ±2.5%	1.56 ~ 3.13A ±2.0%		
	VOLTAGE TOLERANCE Note.4			±2.0%		
		±0.5%	±0.5%			
	LOAD REGULATION	±1.0%	±1.0%	±0.5%		
	SETUP, RISE TIME Note.6	1600ms, 80ms/120VAC 500ms, 100ms/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)				
INPUT						
	TOTAL HARMONIC DISTORTION		@load≧50%/120VC; @load≧60%/230VAC; @load≥75%/277VAC)			
		(Please refer to TOTAL HARMONIC DI	. , , ,			
	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% Ipeak) at 277VAC; Per NEMA 410				
	LEAKAGE CURRENT	<0.75mA/277VAC				
	NO LOAD / STANDBY	<0.5W				
	POWER CONSUMPTION					
PROTECTION	OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed				
	OVER OURRENT					
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	28~34V	41~48V	54 ~ 62V		
		Shut down output voltage, re-power on				
	OVER TEMPERATURE	Shut down output voltage with auto-recovery or re-power on to recover				
	WORKING TEMP.	Tcase=-40 ~ +85 $^\circ C$ (Please refer to OUTPUT LOAD vs TEMPERATURE section)				
	MAX. CASE TEMP.	Tcase=+85℃				
	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	Design refer to UL8750 (type"HL" ),CSA C22.22 No.250.13-12				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC				
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 $^\circ$ 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	2554.5K hrs min. Telcordia SR-332 (Bellcore) 252.4Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	219*63*35.5mm (L*W*H)				
	PACKING	0.95Kg ; 16pcs/16.0kg/0.77CUFT				
NOTE	<ol> <li>Please refer to "DRIVING M</li> <li>Ripple &amp; noise are measured</li> <li>Tolerance : includes set up ti</li> <li>De-rating may be needed u</li> <li>Length of set up time is me</li> <li>The driver is considered as complete installation, the fin</li> <li>This series meets the typical</li> </ol>	In the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. Is the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to TMP, per DLC), is about 75°C or less. The warranty statement on MEAN WELL's website at http://www.meanwell.com				



## ELG-150U series



Typical output current normalized by rated current (%)

50

(C)
 Hiccup
 Protection
 100

lo(%)











ELG-150U series

### LIFE TIME



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







