## MIRЯORSTONE

#### HLG 150W 0-10v Dimmable Driver



### **Product Description**

If you're looking for something that will power your 1-10V dimming systems, then you've come to the right place - Mean Well's 25W 1-10V Constant Voltage LED Driver is well up to the task.

### **Technical Dimensions**

#### **Product Features**

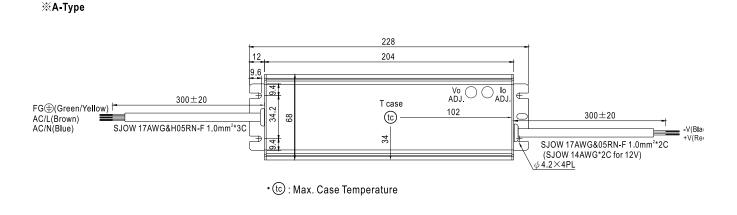
- IP67 design for indoor or outdoor installations
- Built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)
- 5 years warranty
- Protections: Short circuit / Over current / Over voltage /Over temperature
- Universal AC input (up to 305VAC) / Full range
- High efficiency up to 95%
- Output current adjustable through output cable or internal potentiometer
- Cooling by free air convection
- Suitable for LED lighting and street lighting applications
- Meet 4KV surge immunity level (IEC61000-4-5)
- Optional CQC models available
- Built-in active PFC, PF>0.9 for 60% of load or higher







SELV IP66





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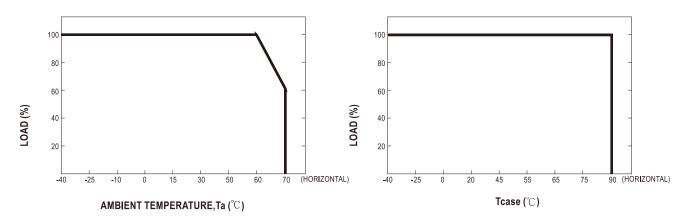
## **Technical Specifications**

ОИТРИТ	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.4	6 ~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V	
	RATED CURRENT	12.5A	10A	7.5A	6.3A	5A	4.2A	3.6A	3.2A	2.8A	
	RATED POWER	150W	150W	150W	151.2W	150W	151.2W	151.2W	153.6W	151.2W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer)									
		Adjustable for A/AB-Type only (via built-in potentiometer)									
	CURRENT ADJ. RANGE				· ·	1	2.5 ~ 4.2A	2.16 ~ 3.6A	1.92 ~ 3.2A	1 60 - 2 0 1	
	WOLTH OF TOLERANDE W		6 ~ 10A	4.5 ~ 7.5A	3.8 ~ 6.3A	3 ~ 5A				1.68 ~ 2.8A	
	VOLTAGE TOLERANCE Note,3		±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
		1000ms,200r	ms/115VAC	500ms,200m	s/230VAC						
	HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC									
INPUT	VOLTAGE RANGE Note,5	90 ~ 305VAC 127 ~ 431VDC									
	VOLTAGE RANGE Note,5	(Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE	47 ~ 63Hz									
		PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC @ full load									
	POWER FACTOR (Typ.)	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)									
	TOTAL HARMONIC DISTORTION	,		. ,		,	(C)				
		THD< 20% (@ load≧60% / 115VAC,230VAC; @ load≧75% / 277VAC)  (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)									
	EFFICIENCY (Typ.)	91.5%	92%	93%	93%	93.5%	93.5%	94%	94%	94%	
	, , ,	1.7A / 115VA			0.7A / 277VAC		30.070	0470	3470	0470	
	AC CURRENT (Typ.) INRUSH CURRENT (Typ.)						ΕΜΔ //10				
		OOLD STAKT	COLD START 65A(twidth=425)/s measured at 50%   Ipeak) at 230VAC; Per NEMA 410								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circui	it breaker of typ	e B) / 7 units	(circuit breaker	of type C) at 2	30VAC				
		0.75 4/07			·						
	LEAKAGE CURRENT	<0.75mA/27	7VAC								
PROTECTION	OVER CURRENT	95 ~ 108%									
		Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed									
	0.450.401.74.05	14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V	
	OVER VOLTAGE	Shut down o/	p voltage with a	auto-recovery	or re-power on	to recovery					
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down									
ENVIRONMENT	WORKING TEMP.	Tcase= -40 ~	+90°C (Pleas	e refer to "OU	TPUT LOAD v	s TEMPERATI	JRE" section)				
	MAX. CASE TEMP.	Tcase=+90°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		,	lo pariod for	72min oach al	ona V V 7 ovo					
	VIDRATION		5G 12min./1cyc					101.1		001051011	
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.0-08; EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independent; GB19510.14;									
		IP65 or IP67; J61347-1, J61347-2-13(except for B,AB and D-type),BIS IS15885( for 12,24,36,54A/B only), EAC TP TC 004;									
		KC61347-1,KC61347-2-13(except for D-type) approved									
	WITHSTAND VOLTAGE	WITHSTAND VOLTAGE         I/P-O/P:3.75KVAC         I/P-FG:2KVAC         O/P-FG:1.5KVAC           ISOLATION RESISTANCE         I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
EMC											
	ISOLATION RESISTANCE		FG, O/P-FG:10	00M Ohms / 50	00VDC / 25°C/	70% RH					
	ISOLATION RESISTANCE	I/P-O/P, I/P-F Compliance t	o EN55015, EN	N55032 (CISP	R32) Class B, E		Class C (@ load	d≧60%) ; EN6	1000-3-3,		
	ISOLATION RESISTANCE EMC EMISSION	I/P-O/P, I/P-F Compliance t GB17743 and	o EN55015, EN d GB17625.1, E	N55032 (CISP) EAC TP TC 02	R32) Class B, E )	EN61000-3-2 (				EAO TO TO 000	
	ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	I/P-O/P, I/P-F Compliance t GB17743 and Compliance to	o EN55015, EN d GB17625.1, E EN61000-4-2,3,4	N55032 (CISP EAC TP TC 020 4,5,6,8,11, EN6	R32) Class B, E ) I547, EN55024, I	EN61000-3-2 (				, EAC TP TC 020	
	ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF	I/P-O/P, I/P-F Compliance t GB17743 and Compliance to 192.2K hrs m	o EN55015, EN d GB17625.1, E EN61000-4-2,3,4 in. MIL-HDE	N55032 (CISP) EAC TP TC 02	R32) Class B, E ) I547, EN55024, I	EN61000-3-2 (				, EAC TP TC 020	
OTHERS	ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	I/P-O/P, I/P-F Compliance t GB17743 and Compliance to 192.2K hrs m 228*68*38.8r	o EN55015, EN d GB17625.1, E EN61000-4-2,3, iin. MIL-HDE mm	N55032 (CISP) EAC TP TC 020 4,5,6,8,11, EN6 BK-217F (25°C	R32) Class B, E ) I547, EN55024, I	EN61000-3-2 (				, EAC TP TC 020	
OTHERS	ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING	I/P-O/P, I/P-F Compliance t GB17743 and Compliance to 192.2K hrs m 228*68*38.8r 1.15Kg; 12pc	o EN55015, EN d GB17625.1, E EN61000-4-2,3,4 in. MIL-HDE mm s/14.8Kg/0.8C	N55032 (CISPI EAC TP TC 020 4,5,6,8,11, EN6 BK-217F (25°C	R32) Class B, E ) 1547, EN55024, I )	N61000-3-2 (	el (surge immunit	y Line-Earth 4K\		, EAC TP TC 020	
	ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT special	I/P-O/P, I/P-F Compliance t GB17743 and Compliance to 192.2K hrs m 228*68*38.8r 1.15Kg; 12pc y mentioned a	o EN55015, EN d GB17625.1, E EN61000-4-2,3,4 in. MIL-HDE mm s/14.8Kg/0.8Cl ire measured a	N55032 (CISPI EAC TP TC 020 4,5,6,8,11, EN6 BK-217F (25°C UFT at 230VAC inp	R32) Class B, E ) 1547, EN55024, I ) ut, rated curre	ight industry leve	el (surge immunit	y Line-Earth 4K\v	/, Line-Line 2KV)	, EAC TP TC 020	
OTHERS	ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT speciall 2. Ripple & noise are measure	I/P-O/P, I/P-F Compliance to GB17743 and Compliance to 192.2K hrs m 228*68*38.8r 1.15Kg; 12pc y mentioned a d at 20MHz of	o EN55015, EN d GB17625.1, E EN61000-4-2,3,4 iin. MIL-HDE mm s/14.8Kg/0.8Ct ire measured at bandwidth by	N55032 (CISP) EAC TP TC 02/ 4,5,6,8,11, EN6 BK-217F (25°C) UFT at 230VAC inpusing a 12" to	R32) Class B, E ) 1547, EN55024, I ) ut, rated currentisted pair-wire	ight industry leve	el (surge immunit	y Line-Earth 4K\v	/, Line-Line 2KV)	, EAC TP TC 020	
	ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT speciall 2. Ripple & noise are measure 3. Tolerance : includes set up 1	I/P-O/P, I/P-F Compliance to GB17743 and Compliance to 192.2K hrs m 228*68*38.8r 1.15Kg; 12pc y mentioned a d at 20MHz of tolerance, line	o EN55015, EN d GB17625.1, E EN61000-4-2,3,4 iin. MIL-HDE mm s/14.8Kg/0.8Cl re measured at i bandwidth by regulation and	N55032 (CISP) RAC TP TC 02/ 4,5,6,8,11, EN6/ BK-217F (25°C) UFT at 230VAC inpusing a 12" to load regulation	R32) Class B, E ) 1547, EN55024, I ) ut, rated currentisted pair-wire	ight industry leve	el (surge immunit	y Line-Earth 4K\v	/, Line-Line 2KV)	, EAC TP TC 020	
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	ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT speciall 2. Ripple & noise are measure 3. Tolerance : includes set up 1 4. Please refer to "DRIVING M 5. De-rating may be needed ur	I/P-O/P, I/P-F Compliance to GB17743 and Compliance to 192.2K hrs m 228*68*38.8r 1.15Kg; 12pc y mentioned a d at 20MHz of tolerance, line ETHODS OF nder low input	o EN55015, EN d GB17625.1, E EN61000-4-2,3,- in. MIL-HDE mm s/14.8Kg/0.8Cl are measured at bandwidth by regulation and LED MODULE voltages. Plea-	N55032 (CISP) EAC TP TC 020 4,5,6,8,11, EN6 BK-217F (25°C UFT at 230VAC inpusing a 12" to load regulation.	R32) Class B, E 1547, EN55024, I )  ut, rated currer wisted pair-wire in.	ight industry level ight and 25°C of terminated w	el (surge immunit f ambient temp ith a 0.1uf & 4	y Line-Earth 4KV perature. Tuf parallel capails.	/, Line-Line 2KV)	, EAC TP TC 020	
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	ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT speciall 2. Ripple & noise are measure 3. Tolerance: includes set up t 4. Please refer to "DRIVING M 5. De-rating may be needed ur 6. Length of set up time is mea 7. The driver is considered as a complete installation, the fina 8. To fulfill requirements of the connected to the mains.	I/P-O/P, I/P-F Compliance to GB17743 and Compliance to 192.2K hrs m 228*68*38.8r 1.15Kg; 12pc y mentioned a d at 20MHz of tolerance, line ETHODS OF addr low input assured at first of a component t al equipment n latest ErP regi	o EN55015, EN d GB17625.1, E EN61000-4-2,3, in. MIL-HDE mm s/14.8Kg/0.8Cl re measured a bandwidth by regulation and LED MODULE voltages. Pleasottate will be open nanufacturers ulation for light by of >62,000 l	N55032 (CISP) EAC TP TC 02I 4,5,6,8,11, EN6 BK-217F (25°C UFT at 230VAC inpusing a 12" to load regulation "". se refer to "S" ing ON/OFF to requalify ing fixtures, the	R32) Class B, E ) 1547, EN55024, I )  ut, rated currer wisted pair-wire on.  FATIC CHARA he driver may ination with fin v EMC Directiv is LED driver of	ight industry level ight industry level ight industry level int and 25°C or exterminated where the concept is all equipment. It is all equipment in the company only be uselie.	el (surge immunit  f ambient temp  tith a 0.1uf & 4'  sections for det  se of the set up  Since EMC pe  elete installation  ed behind a sv	y Line-Earth 4KV  perature.  7uf parallel cap  ails.  time.  rformance will  again.  witch without p	vacitor.  be affected by ermanently	' the	
	ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT speciall 2. Ripple & noise are measure 3. Tolerance: includes set up 1 4. Please refer to "DRIVING M 5. De-rating may be needed ur 6. Length of set up time is mea 7. The driver is considered as a complete installation, the fina 8. To fulfill requirements of the connected to the mains. 9. This series meets the typical	I/P-O/P, I/P-F Compliance to GB17743 and Compliance to 192.2K hrs m 228*68*38.8r 1.15Kg; 12pc y mentioned a d at 20MHz of tolerance, line ETHODS OF nder low input asured at first of a component t al equipment n latest ErP regi	o EN55015, EN d GB17625.1, E EN61000-4-2,3, in. MIL-HDE mm s/14.8Kg/0.8Cl re measured a i bandwidth by regulation and LED MODULE voltages. Plea: cold start. Turn that will be ope nanufacturers i ulation for light cy of >62,000 i n MEAN WELL	N55032 (CISP) EAC TP TC 02i 4,5,6,8,11, EN6 BK-217F (25°C  UFT  at 230VAC inpusing a 12" to load regulation. The see refer to "S" in gon/OFF it broated in combe must re-qualifying fixtures, the nours of operations and the seed of the	R32) Class B, E ) 1547, EN55024, I )  ut, rated currer wisted pair-wire on.  FATIC CHARA hard criver may ination with fin y EMC Directiv is LED driver of tion when Tca	ight industry lever ight industry lever int and 25°C or experiment and 25°C or experiment. In a comparation of the comparation of the comparation only be usued.	el (surge immunit  f ambient temp  ith a 0.1uf & 4'  sections for det  se of the set up  Since EMC pe  slete installation  ed behind a su  (to point (or 7)	y Line-Earth 4KV perature. 7uf parallel cap ails. b time. vrformance will n again. witch without p	be affected by ermanently	the corless.	
	ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT speciall 2. Ripple & noise are measure 3. Tolerance : includes set up to the set up to	I/P-O/P, I/P-F Compliance to GB17743 and Compliance to 192.2K hrs m 228*68*38.8r 1.15Kg; 12pc y mentioned a dot at 20MHz of dot at 20MHz of asured at first o a component t al equipment n latest ErP regi Il life expectancy y statement or derating of 3.5° dd IP water pro	o EN55015, EN d GB17625.1, E EN61000-4-2,3, in. MIL-HDE mm s/14.8Kg/0.8Cl re measured a i bandwidth by regulation and LED MODULE voltages. Plea: cold start. Turn that will be ope naulfacturers i ulation for light cy of >62,000 h n MEAN WELL IC/1000m with pof function ins	N55032 (CISP) ACT TP TC 02i 4,5,6,8,11, EN6 BK-217F (25°C  UFT  at 230VAC inpusing a 12" to load regulation. Energy of the compared in comb must re-qualify must re-qualify must re-qualify must re-duction of opera class website at fanless mode	R32) Class B, E  1547, EN55024, I  1547, EN55024, I  ut, rated currer wisted pair-wire in.  FATIC CHARA hard criver may ination with fin if EMC Directiv is LED driver of tition when Tca http://www.mea Is and of 5°C/-	ight industry level ight industry level ight industry level int and 25°C of a terminated where the compact is all equipment. It is all equipment in an only be usue, particularly anwell.com.	of surge immuniting fambient temperature of ambient temperature of the sections for detections f	y Line-Earth 4KV  perature.  Tuf parallel cap  ails.  to time.  formance will  a again.  witch without p  TMP, per DLC)  perating altitude	be affected by ermanently	the corless.	

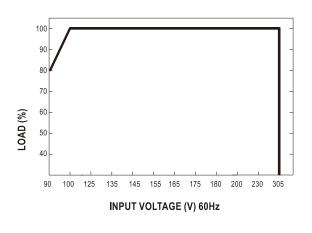
## **MIRЯORSTONE**

### **HLG 150W 0-10v Dimmable Driver**

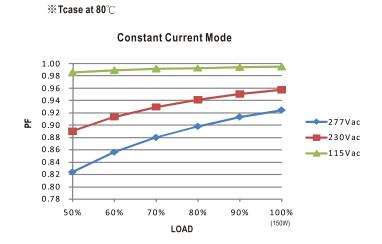
### Output Load vs Temperature



#### Static Characteristic

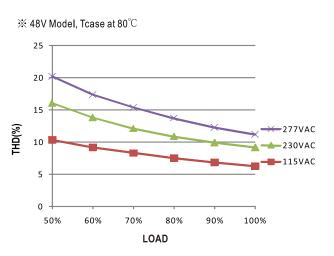


## Power Factor(PF) Characteristic



※ De-rating is needed under low input voltage.

### Total Harmonic Distortion



### Efficiency vs Load

HLG-150H series possess superior working efficiency that up to 94% can be reached in field applications.

ightarrow 48V Model, Tcase at 80 $^{\circ}$ C

