



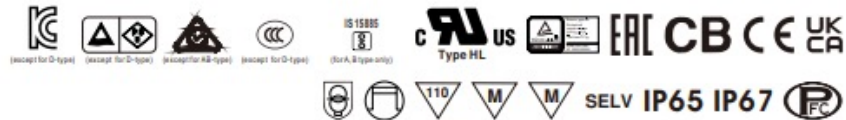
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Project	<input type="text"/>	Type	<input type="text"/>	PO#	<input type="text"/>

LS-PSU-24V-120/277V-150W-IP67-0-10V



150W Constant Voltage + Constant Current LED Driver

HLG-150H series



■ Features

- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours
- 7 years warranty

■ Applications

- LED street lighting
- LED high-bay lighting
- Parking space lighting
- LED fishing lamp
- LED greenhouse lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

■ Description

HLG-150H series is a 150W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-150H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 94%, 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. HLG-150H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

■ Model Encoding

HLG - 150H - 15 A

- Function options
- Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V)
- Rated wattage
- Series name

Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
B	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

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SPECIFICATION

MODEL	HLG-150H-12	HLG-150H-15	HLG-150H-20	HLG-150H-24	HLG-150H-30	HLG-150H-36	HLG-150H-42	HLG-150H-48	HLG-150H-54
DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
CONSTANT CURRENT REGION <small>Note 4</small>	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 <small>(max.) Note 2</small>	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)								
	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V
CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer)								
	7.5 ~ 12.5A	6 ~ 10A	4.5 ~ 7.5A	3.8 ~ 6.3A	3 ~ 5A	2.5 ~ 4.2A	2.16 ~ 3.6A	1.92 ~ 3.2A	1.68 ~ 2.8A
VOLTAGE TOLERANCE <small>Note 3</small>	±2.5%	±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%
SETUP, RISE TIME <small>Note 6</small>	1000ms, 200ms / 115VAC 500ms, 200ms / 230VAC								
HOLD UP TIME <small>(Typ.)</small>	16ms / 115VAC, 230VAC								
VOLTAGE RANGE <small>Note 5</small>	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)								
FREQUENCY RANGE	47 ~ 63Hz								
POWER FACTOR <small>(Typ.)</small>	PF ≥ 0.98 / 115VAC, PF ≥ 0.95 / 230VAC, PF ≥ 0.92 / 277VAC @ full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)								
TOTAL HARMONIC DISTORTION	THD < 20% (@ load ≥ 60% / 115VAC, 230VAC; @ load ≥ 75% / 277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)								
EFFICIENCY <small>(Typ.)</small>	91.5%	92%	93%	93%	93.5%	93.5%	94%	94%	94%
AC CURRENT <small>(Typ.)</small>	1.7A / 115VAC	0.75A / 230VAC	0.7A / 277VAC						
INRUSH CURRENT <small>(Typ.)</small>	COLD START 65A (I _{inrush} = 425A measured at 50% I _{peak}) at 230VAC; Per NEMA 410								
MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC								
LEAKAGE CURRENT	< 0.75mA / 277VAC								
OVER CURRENT	95 ~ 108%								
SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed								
OVER VOLTAGE	14 ~ 17V 18 ~ 21V 23 ~ 27V 28 ~ 34V 34 ~ 38V 41 ~ 48V 47 ~ 53V 54 ~ 63V 59 ~ 65V Shut down o/p voltage with auto-recovery or re-power on to recovery								
OVER TEMPERATURE <small>Note 8</small>	Shut down o/p voltage, recovers automatically after temperature goes down								
WORKING TEMP.	T _{case} = -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
MAX. CASE TEMP.	T _{case} = +90°C								
WORKING HUMIDITY	20 ~ 95% RH non-condensing								
STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
TEMP. COEFFICIENT	±0.03%/°C (0 ~ 80°C)								
VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
SAFETY STANDARDS	UL8750(type HL), CSA C22.2 No. 250.0-08; BS EN/EN 61347-1, BS EN/EN 61347-2-13, AS/NZS 61347-1(except for AB-type), AS/NZS 61347-2-13(except for AB-type) independent; GB19510.1, GB19510.14(except for D-type); IP65 or IP67, J61347-1, J61347-2-13(except for D-type); BIS 15885 (for A, B type only), EAC TP TC 004; KC61347-1, KC61347-2-13(except for D-type) approved								
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 EMISSION	Compliance to BS EN/EN 55015, BS EN/EN 55032 (CISPR32) Class B, BS EN/EN 61000-3-2 Class C (@ load ≥ 60%); BS EN/EN 61000-3-3, GB/T 17743, GB17625.1(except for D-type), EAC TP TC 020, KSC 9815(except for D-type)								
EMC IMMUNITY	Compliance to BS EN/EN 61000-4-2, 3, 4, 5, 6, 8, 11, BS EN/EN 61547, BS EN/EN 55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020, KSC 9547(except for D-type)								
MTBF	2176.1K hrs min. Telcordia SR-332(Bellcore); 166.4K hrs min. MIL-HDBK-217F (25°C)								
DIMENSION	228*68*38.8mm								
PACKING	1.15Kg; 12pcs/14.8Kg/0.8CUFT								
NOTE	<ol style="list-style-type: none">All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.Tolerance : includes set up tolerance, line regulation and load regulation.Please refer to "DRIVING METHODS OF LED MODULE".Derating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.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.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. (as available on https://www.meanwell.com/UploadPDF/EMI_statement_en.pdf)To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.For OTP which triggered at light load/no load condition, proceed AC repower on to recovery.This series meets the typical life expectancy of >62,000 hours of operation when T_{case}, particularly (T_{case} per DLC), is about 80°C or less.Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.The ambient temperature derating of 3.5°/1000m with fanless models and of 5°/1000m with fan models for operating altitude higher than 2000m(6500ft).For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/UploadPDF/LED_EN.pdfFor A/AB type need to consider build in using to comply with Type HL application.Products sourced from the Americas regions may only have the UL, CE and UKCA logos. Please contact your MEAN WELL sales for more information. <p>× Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/service/Disclaimer.aspx</p> <p>File Name: HLG-150H-SPEC_2025-04-10</p>								



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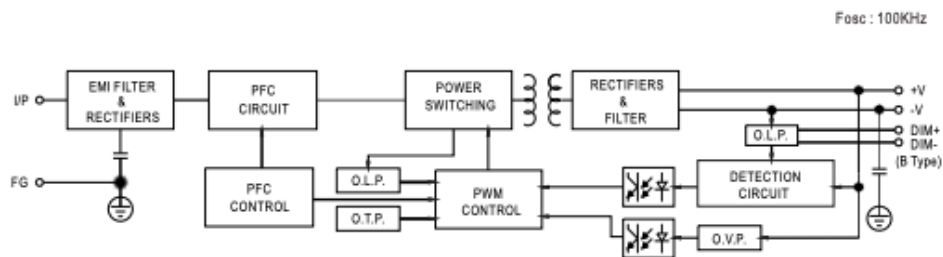
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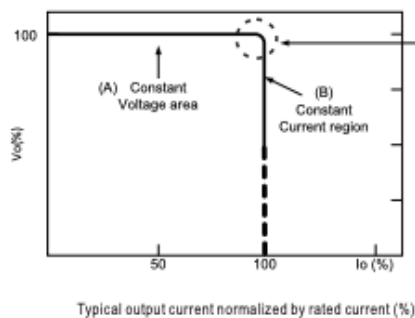
HLG-150H series

■ BLOCK DIAGRAM



■ DRIVING METHODS OF LED MODULE

※ 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.



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.

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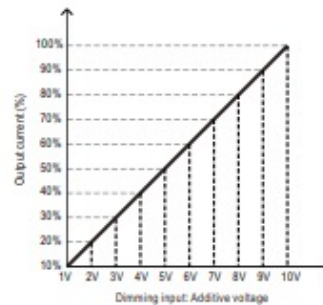
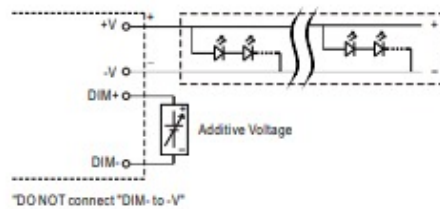


150W Constant Voltage + Constant Current LED Driver

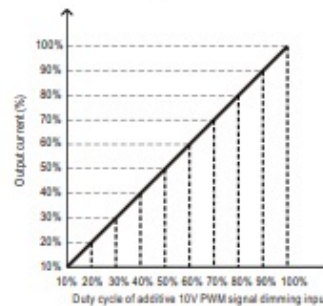
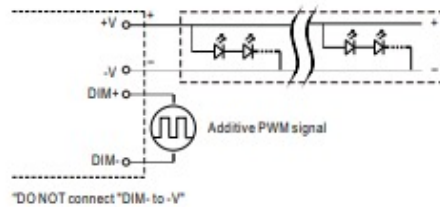
HLG-150H series**DIMMING OPERATION****※ 3 in 1 dimming function (for B/AB-Type)**

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 1 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100 μ A (typ.)

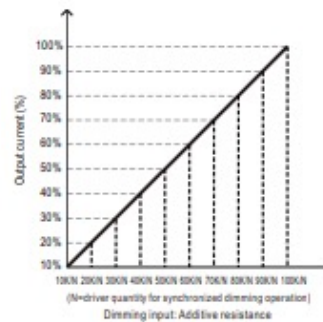
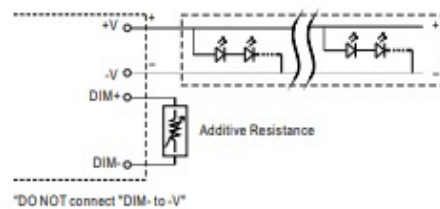
① Applying additive 1 ~ 10VDC



② Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



③ Applying additive resistance:





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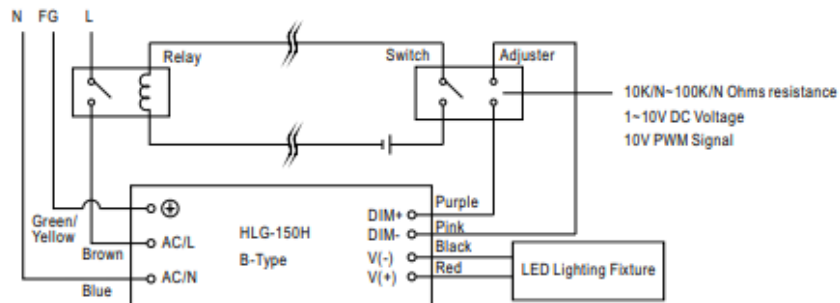
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Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



Using a switch and relay can turn ON/OFF the lighting fixture.



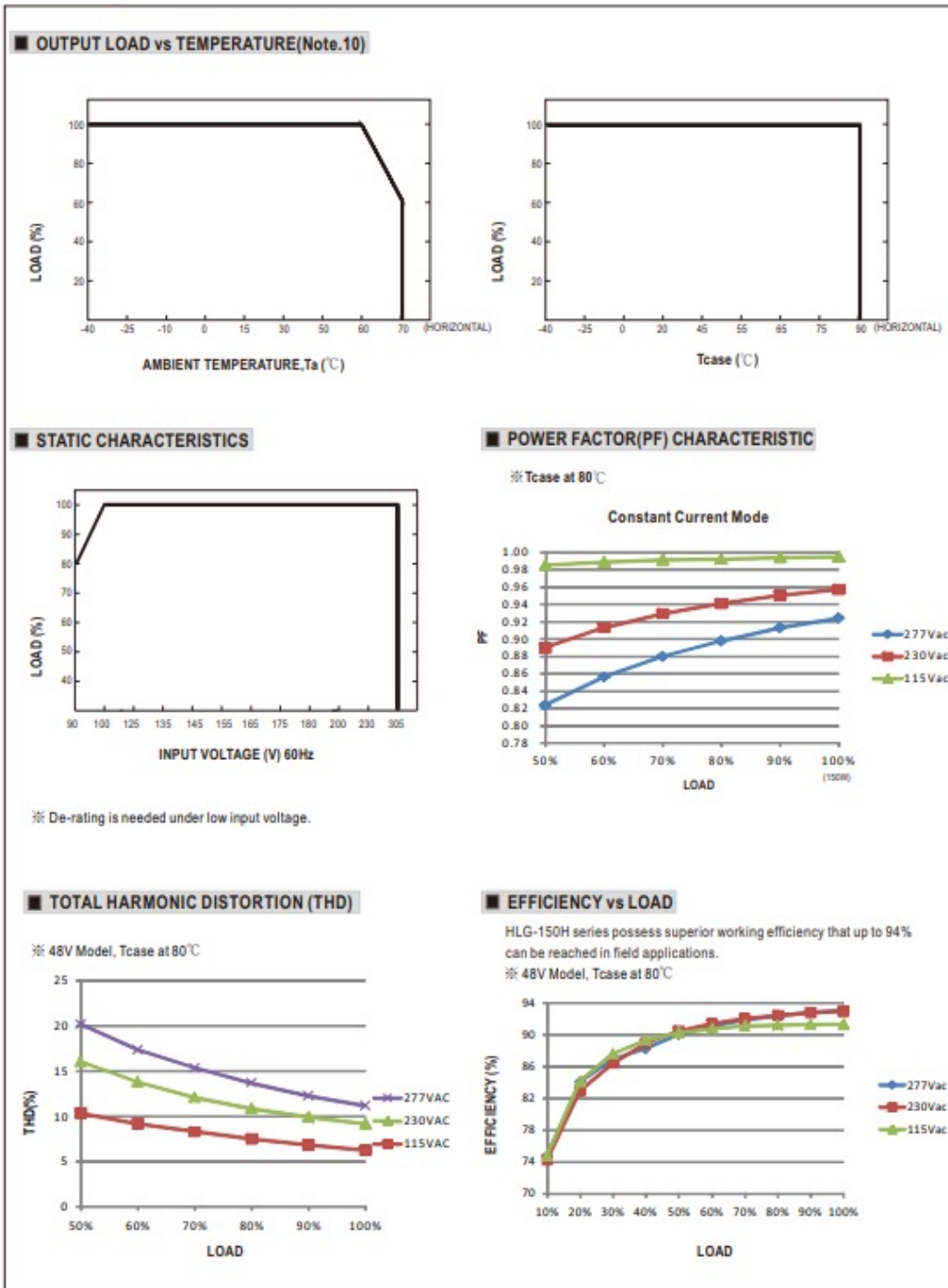
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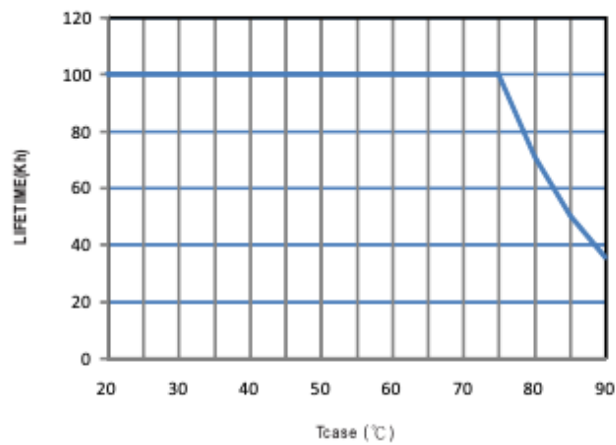
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150W Constant Voltage + Constant Current LED Driver

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■ LIFE TIME





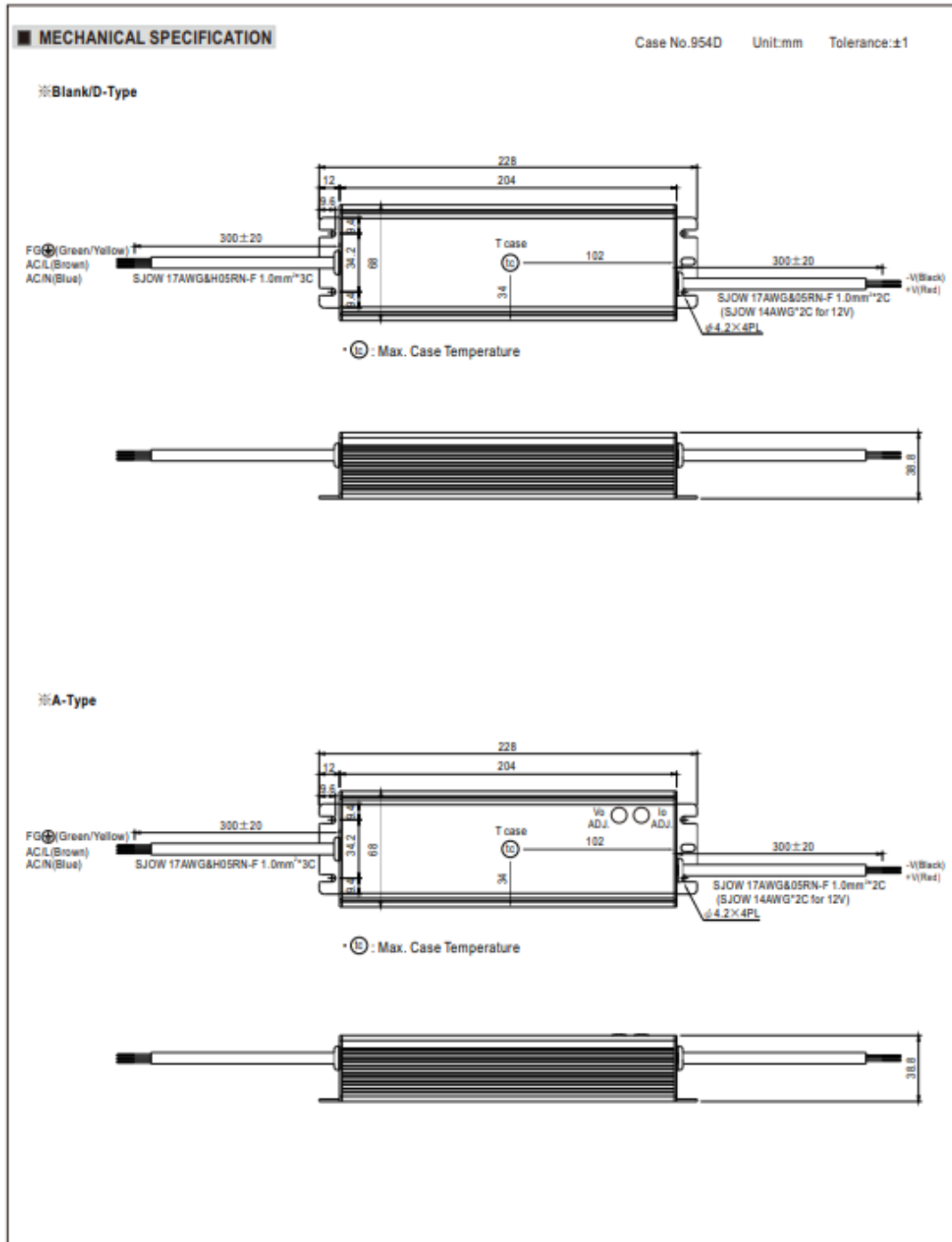
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150W Constant Voltage + Constant Current LED Driver

HLG-150H series



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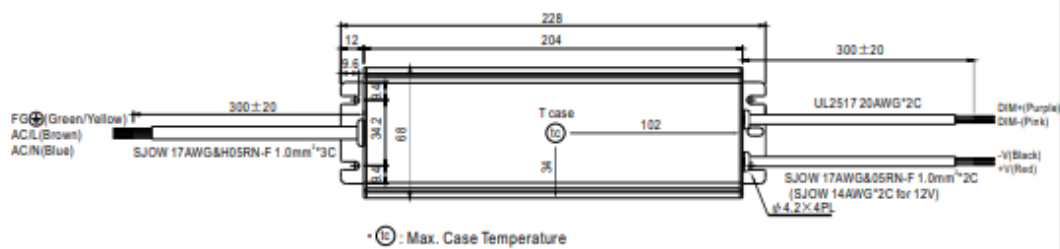
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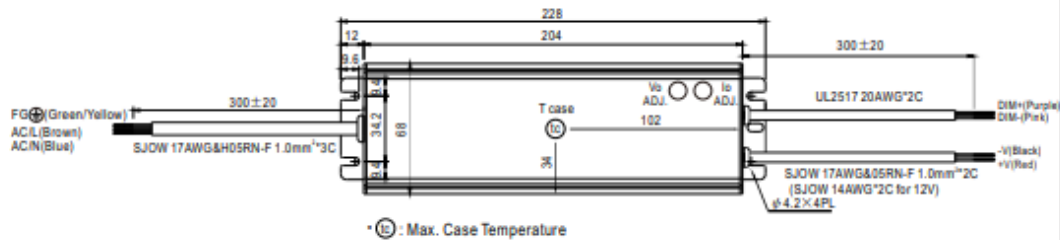
150W Constant Voltage + Constant Current LED Driver

HLG-150H series

※B-Type



※AB-Type



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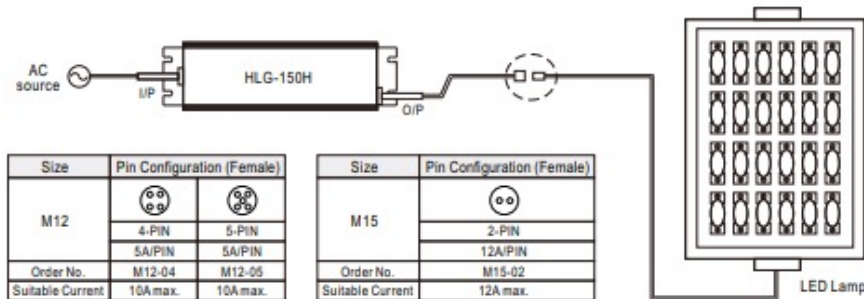


150W Constant Voltage + Constant Current LED Driver

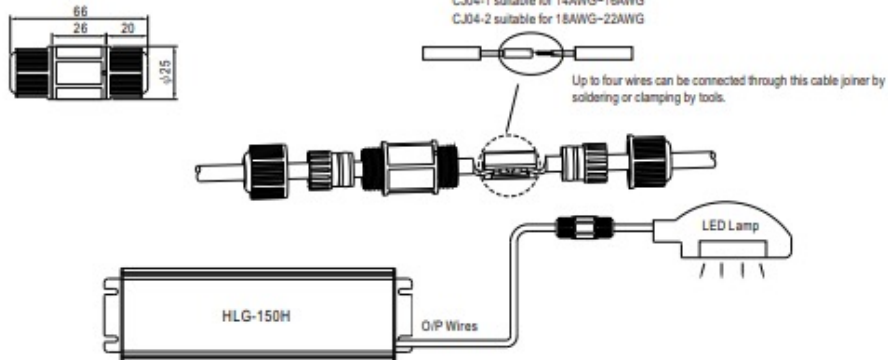
HLG-150H series**WATERPROOF CONNECTION**

✧ Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-150H to operate in dry/wet/damp or outdoor environment.

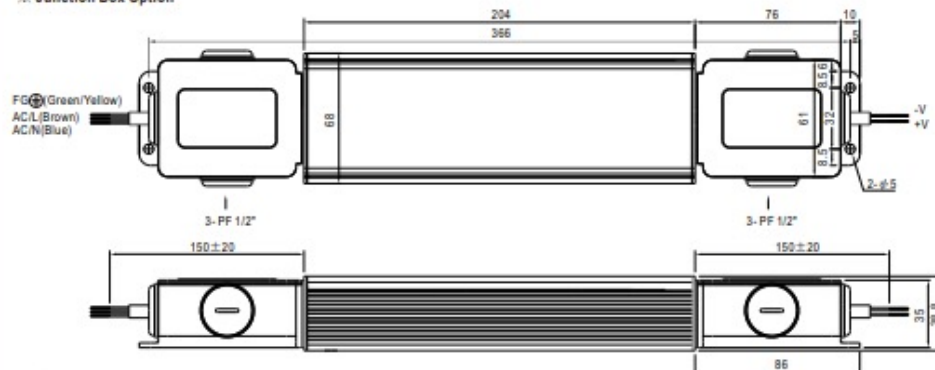


✧ Cable Joiner



✧ CJ04 cable joiner can be purchased independently for user's own assembly.
MEAN WELL order No. : CJ04-1, CJ04-2.

✧ Junction Box Option



✧ Junction box option is available for A / Blank - Type. Please contact MEAN WELL for details.

INSTALLATION MANUALPlease refer to : <http://www.meanwell.com/manual.html>