

600W Constant Voltage + Constant Current LED Driver

HLG-600H





















Features

- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- Standby power consumption <0.5W at remote off
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming (dim-to-off)
- Typical lifetime > 62000 hours
- 7 years warranty

Applications

- · 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-600H series is a 600W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-600H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 96%, 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. HLG-600H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



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



POLLOCK Industries sales@electracool.com 600W Constant Voltage + Constant Current LED Driver

HLG-600H series

SPECIFICATION

MODEL			HLG-600H-12	HLG-600H-15	HLG-600H-20	HLG-600H-24	HLG-600H-30	HLG-600H-36	HLG-600H-42	HLG-600H-48	HLG-600H-54							
	DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V							
-	CONSTANT CURRENT	REGION Note.4		7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V							
	RATED CURRENT		40A	36A	28A	25A	20A	16.7A	14.3A	12.5A	11.2A							
	RATED CORRENT		480W	540W	560W	600W	600W	601.2W	600.6W	600W	604.8W							
	RIPPLE & NOISE (max.) Note 2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p							
	VOLTAGE ADJ. RANGE CURRENT ADJ. RANGE						200p p		200 p		осстрр							
			Adjustable for A-Type only (via built-in potentiometer) 10.2 ~ 12.6V 12.7 ~ 15.8V 17 ~ 21V 20.4 ~ 25.2V 25.5 ~ 31.5V 30.6 ~ 37.8V 35.7 ~ 44.1V 40.8 ~ 50.4V 45.9 ~ 56.7															
			Adjustable for A-Type only (via built-in potentiometer)															
			20 ~ 40A	18 ~ 36A	14 ~ 28A	12.5 ~ 25A	10 ~ 20A	8.3 ~ 16.7A	7.1 ~ 14.3A	6.2 ~ 12.5A	5.6 ~ 11.2A							
				±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%							
	LINE REGULATIO		±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 TIM		500ms, 80ms			1 ± 0.5 %	⊥0.5%				±0.5%							
	-		-		VAC													
	VOLTAGE RANGE Note.5		15ms / 115VA		4)/D0													
INPUT			90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)															
			`	IO STATIC CH	AKAC I EKIST	ic section)												
	FREQUENCY RANGE POWER FACTOR (Typ.)		47 ~ 63Hz															
			PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.93/277VAC @ full load															
					CTOR (PF) CH		,											
	TOTAL HARMONIC	DISTORTION	, , ,				75%/277VAC)											
			•		RMONIC DIS	· ·												
	EFFICIENCY	230VAC	92%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%							
	(Typ.)	277VAC	92.5%	93.5%	94.5%	95%	95%	95.5%	96%	96%	96%							
	AC CURRENT (Typ.)		7A / 115VAC	3.3A / 230		A / 277VAC												
	INRUSH CURRENT(Typ.)		COLD START	70A(twidth=100	00μs measured	at 50% Ipeak) a	t 230VAC; Per N	IEMA 410										
	MAX. No. of PSUs on 16A		1 unit /oirouit	brooker of type	n D\ / 2 unito / c	irouit brooker	of tuno (C) at 22	01/40										
	CIRCUIT BREAKER		1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC															
	LEAKAGE CURRENT		<0.75mA/277VAC															
	STANDBY POWER CONSUMPTION		<0.5W at remote off															
	OVER CURRENT		95 ~ 108%															
	OVER CURRENT Note.4		Constant current limiting, recovers automatically after fault condition is removed															
	SHORT CIRCUIT						ılt condition is r											
	OVER VOLTAGE OVER TEMPERATURE		13 ~ 16V	16.5 ~ 20.5V		26 ~ 30V		39.5 ~ 43.5V	46 ~ 50V	52.5 ~ 56.5V	59 ~ 63V							
			Shut down o/p voltage, re-power on to recover															
					ower on to reco													
	REMOTE ON/OFF CONTROL			gh" >2 ~ 5V or 0			ow" <0 ~ 0.5V or	Short circuit										
FUNCTION	5V STANDBY				5%, ripple : 10	0mVp-p(max)												
	WORKING TEMP.					,	s TEMPERATU	IRE" section)										
ENVIRONMENT		D	Tcase= +90°0		2.0.0.10 00		LIVII C	= 00000011)										
	MAX. CASE TEMP.																	
	WORKING HUMIDITY		20 ~ 95% RH non-condensing															
. 1	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH non-condensing															
			1 0 0 0 0 0 1°C	±0.03%/°C (0~55°C)														
·	TEMP. COEFFICIE			,		70					10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL60950-1, UL8750(type"HL"), CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13 independent, EN62384,							
			10 ~ 500Hz, 5	G 12min./1cyc														
	TEMP. COEFFICIE VIBRATION	NT	10 ~ 500Hz, 5 UL60950-1, L	5G 12min./1cyc	L"), CSA C22.2	No. 250.13-1	2, ENEC EN613	347-1, EN6134		ndent, EN6238	4,							
	TEMP. COEFFICIE	NT	10 ~ 500Hz, 5 UL60950-1, U IP65 or IP67,	GG 12min./1cyc JL8750(type"H J61347-1, J61	L"), CSA C22.2 347-2-13, CCC	No. 250.13-1 C GB4943.1, E	2, ENEC EN613 AC TP TC 004,	347-1, EN6134		ndent, EN6238	4,							
	TEMP. COEFFICIE VIBRATION	NT	10 ~ 500Hz, 5 UL60950-1, U IP65 or IP67, KC61347-1, P	GG 12min./1cyo JL8750(type"H J61347-1, J61 KC61347-2-13(L"), CSA C22.2 347-2-13, CCC (for 24A,36A,48	2 No. 250.13-1. C GB4943.1, E BA,54A only) a	2, ENEC EN613 AC TP TC 004, pproved	347-1, EN6134		ndent, EN6238	4,							
SAFETY &	TEMP. COEFFICIE VIBRATION	RDS Note.7	10 ~ 500Hz, 5 UL60950-1, U IP65 or IP67, KC61347-1, P	GG 12min./1cyo JL8750(type"H J61347-1, J61 KC61347-2-13(L"), CSA C22.2 347-2-13, CCC	2 No. 250.13-1. C GB4943.1, E BA,54A only) a	2, ENEC EN613 AC TP TC 004, pproved	347-1, EN6134		ndent, EN6238	4,							
SAFETY &	TEMP. COEFFICIE VIBRATION SAFETY STANDA	RDS Note.7	10 ~ 500Hz, § UL60950-1, L IP65 or IP67, KC61347-1, I/P-O/P:3.75	GG 12min./1cyc JL8750(type"H J61347-1, J61 (C61347-2-13(KVAC I/P-F	L"), CSA C22.2 347-2-13, CCC (for 24A,36A,48	No. 250.13-1. CGB4943.1, E BA,54A only) a /P-FG:1.5KV	2, ENEC EN613 AC TP TC 004, pproved	347-1, EN6134		ndent, EN6238	4,							
SAFETY &	TEMP. COEFFICIE VIBRATION SAFETY STANDA WITHSTAND VOL	RDS Note.7	10 ~ 500Hz, 5 UL60950-1, L IP65 or IP67, KC61347-1, k I/P-O/P:3.75	GG 12min./1cyc JL8750(type"H J61347-1, J61 (C61347-2-13) KVAC I/P-F FG, O/P-FG:10	L"), CSA C22.2 347-2-13, CCC (for 24A,36A,44 G:2KVAC O DOM Ohms / 50	P. No. 250.13-1. C GB4943.1, E BA,54A only) a P-FG:1.5KVA 10VDC / 25°C/	2, ENEC EN613 AC TP TC 004, pproved	847-1, EN6134 AS/NZS 60950	0.1(by CB),									
SAFETY &	TEMP. COEFFICIE VIBRATION SAFETY STANDA WITHSTAND VOLISOLATION RESISEMC EMISSION	RDS Note.7 TAGE	10 ~ 500Hz, 5 UL60950-1, L IP65 or IP67, KC61347-1, I/P-O/P:3.75 I/P-O/P, I/P-F Compliance to	5G 12min./1cyc JL8750(type"H J61347-1, J61 (C61347-2-13(KVAC I/P-F FG, O/P-FG:10 EN55015, EN61	L"), CSA C22.2 347-2-13, CCC (for 24A,36A,44 G:2KVAC O. 00M Ohms / 50 000-3-2 Class C	P. No. 250.13-1. C GB4943.1, E BA,54A only) a /P-FG:1.5KVA DVDC / 25°C/ C (@ load≧50%	2, ENEC EN613 AC TP TC 004, pproved AC 70% RH	847-1, EN6134 AS/NZS 60950 EAC TP TC 020).1(by CB),	1547(for 24A,36	A,48A,54A or							
SAFETY & EMC (Note 10)	TEMP. COEFFICIE VIBRATION SAFETY STANDA WITHSTAND VOL' ISOLATION RESIS	RDS Note.7 TAGE	10 ~ 500Hz, § UL60950-1, L IP65 or IP67, KC61347-1, I I/P-O/P:3.75 I/P-O/P, I/P-F Compliance to	GG 12min./1cyc JL8750(type"H J61347-1, J61 (C61347-2-13(KVAC I/P-F G, O/P-FG:10 EN55015, EN61 o EN61000-4-2	L"), CSA C22.2 347-2-13, CCC (for 24A,36A,44 G:2KVAC O. 00M Ohms / 50 000-3-2 Class C	2 No. 250.13-1. C GB4943.1, E BA,54A only) a /P-FG:1.5KVA IOVDC / 25°C/ C (@ load≧50% EN61547, EN	2, ENEC EN613 AC TP TC 004, pproved AC 70% RH b); EN61000-3-3,	847-1, EN6134 AS/NZS 60950 EAC TP TC 020).1(by CB),	1547(for 24A,36	A,48A,54A on							
SAFETY &	TEMP. COEFFICIE VIBRATION SAFETY STANDA WITHSTAND VOLISOLATION RESISEMC EMISSION	RDS Note.7 TAGE	10 ~ 500Hz, § UL60950-1, L IP65 or IP67, KC61347-1, I I/P-O/P:3.75 I/P-O/P, I/P-F Compliance to	GG 12min./1cyc JL8750(type"H JG1347-1, JG1 (CG1347-2-13(KVAC I/P-F G, O/P-FG:1(EN55015, EN61 o EN61000-4-2 20; KC KN15, I	L"), CSA C22.2 347-2-13, CCC (for 24A,36A,48 G:2KVAC O 00M Ohms / 50 000-3-2 Class O 2,3,4,5,6,8,11,	2 No. 250.13-1. C GB4943.1, E BA,54A only) a /P-FG:1.5KVA IOVDC / 25°C/ C (@ load≧50% EN61547, EN	2, ENEC EN613 AC TP TC 004, pproved AC 70% RH b); EN61000-3-3,	847-1, EN6134 AS/NZS 60950 EAC TP TC 020).1(by CB),	1547(for 24A,36	A,48A,54A or							
SAFETY & EMC Note 10)	TEMP. COEFFICIE VIBRATION SAFETY STANDA WITHSTAND VOL' ISOLATION RESIS EMC EMISSION EMC IMMUNITY MTBF	RDS Note.7 TAGE	10 ~ 500Hz, \$\) UL60950-1, U IP65 or IP67, KC61347-1, k I/P-O/P:3.75 I/P-O/P, I/P-F Compliance to EAC TP TC 0 76.9K hrs mir	GG 12min./1cyc JL8750(type"H J61347-1, J61 (C61347-2-13) KVAC I/P-F -G, O/P-FG:10 EN55015, EN61 o EN61000-4-2 20; KC KN15, I . MIL-HDBI	L"), CSA C22.2 347-2-13, CCC (for 24A,36A,4t G:2KVAC O 00M Ohms / 50 000-3-2 Class (2,3,4,5,6,8,11, KN61547(for 2-	2 No. 250.13-1. C GB4943.1, E BA,54A only) a /P-FG:1.5KVA IOVDC / 25°C/ C (@ load≧50% EN61547, EN	2, ENEC EN613 AC TP TC 004, pproved AC 70% RH b); EN61000-3-3,	847-1, EN6134 AS/NZS 60950 EAC TP TC 020).1(by CB),	1547(for 24A,36	A,48A,54A on							
SAFETY &	TEMP. COEFFICIE VIBRATION SAFETY STANDA WITHSTAND VOL' ISOLATION RESIS EMC EMISSION EMC IMMUNITY	RDS Note.7 TAGE	10 ~ 500Hz, \$\) UL60950-1, U IP65 or IP67, KC61347-1, \$\) I/P-O/P:3.75 I/P-O/P, I/P-F Compliance to Compliance t EAC TP TC 0 76.9K hrs mir 280*144*48.5	GG 12min./1cyc JL8750(type"H J61347-1, J61 (C61347-2-13) KVAC I/P-F -G, O/P-FG:10 EN55015, EN61 o EN61000-4-2 20; KC KN15, I . MIL-HDBI	L"), CSA C22.2 347-2-13, CCC (for 24A,36A,44 G:2KVAC O 00M Ohms / 50 000-3-2 Class C 2,3,4,5,6,8,11, KN61547(for 2: K-217F (25°C)	2 No. 250.13-1. C GB4943.1, E BA,54A only) a /P-FG:1.5KVA IOVDC / 25°C/ C (@ load≧50% EN61547, EN	2, ENEC EN613 AC TP TC 004, pproved AC 70% RH b); EN61000-3-3,	847-1, EN6134 AS/NZS 60950 EAC TP TC 020).1(by CB),	1547(for 24A,36	A,48A,54A on							

- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacito
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- 4. Please refer to "DRIVING METHODS OF LED MODULE".
- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" 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 model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details.
- 8. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (© 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
- 10. The driver is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)
- 11. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/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/Upload/PDF/LED_EN.pdf
- ** Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx File Name:HLG-600H-SPEC 2020-09-27

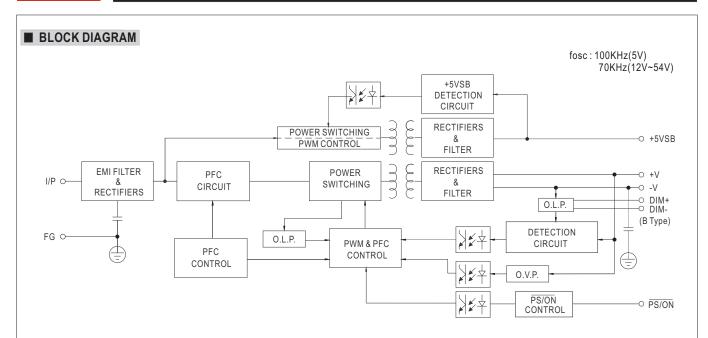
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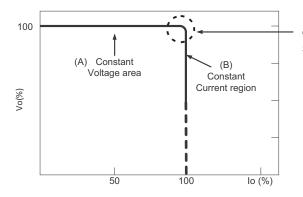
600W Constant Voltage + Constant Current LED Driver

HLG-600H series



■ 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 (%)

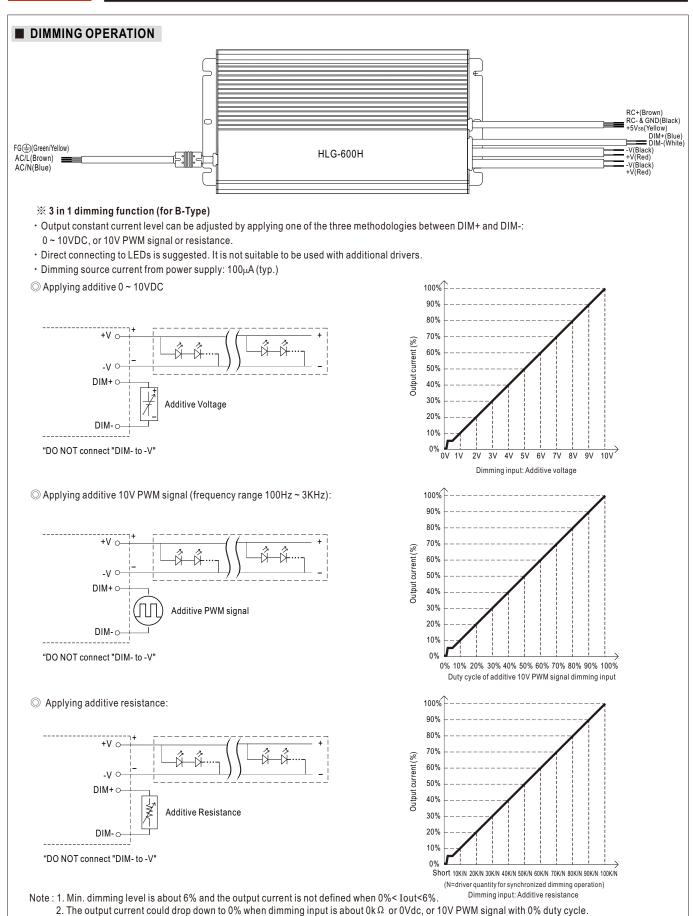
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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



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HLG-600H series



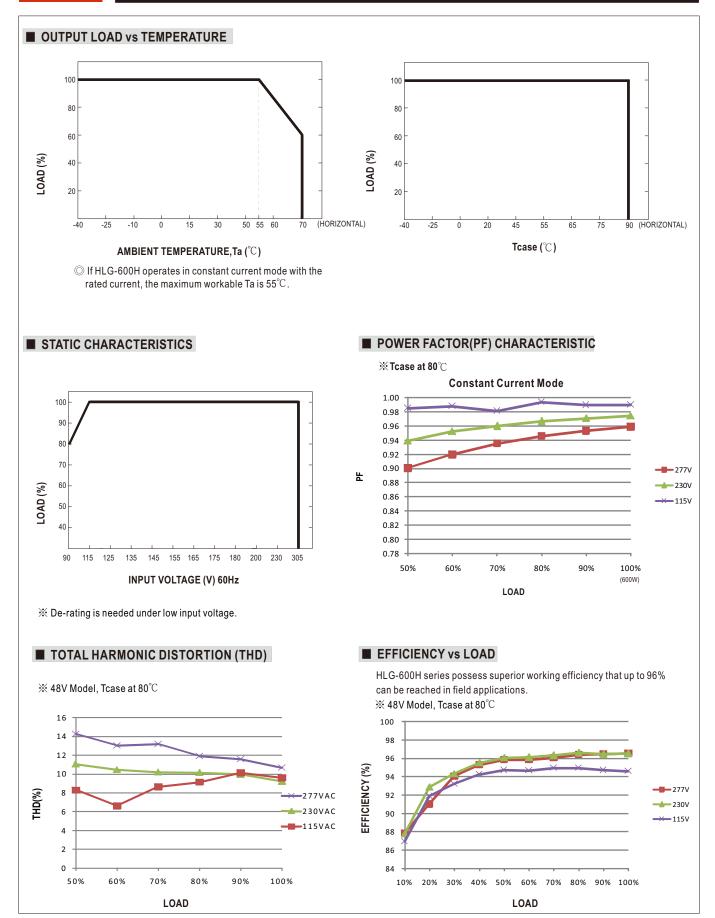
MEAN WELL

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HLG-600H series

600W Constant Voltage + Constant Current LED Driver



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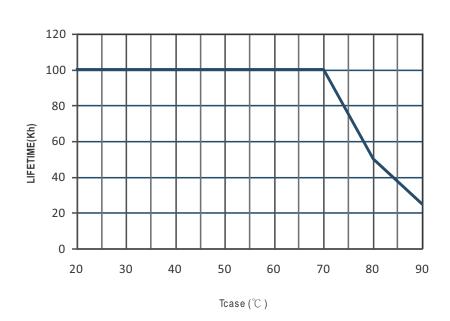
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600W Constant Voltage + Constant Current LED Driver

HLG-600H series

■ LIFETIME



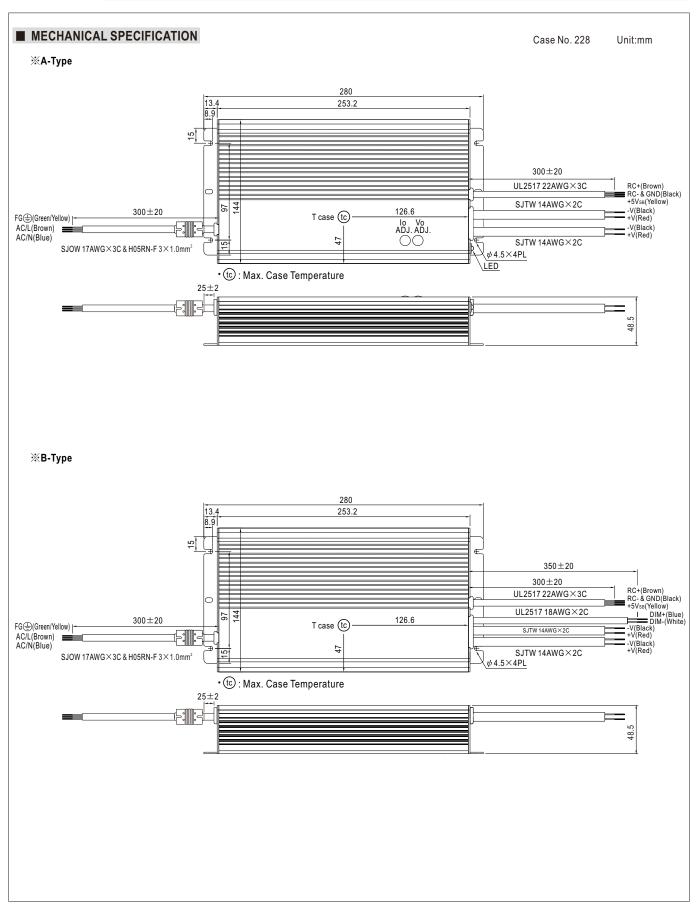


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