



- 3 in 1 dimming (dim-to-off); Smart timer dimming; DALI
- Typical lifetime>50000 hours
- 5 years warranty

• Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

GTIN CODE

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

Description

ELG-100-C series is a 100W LED AC/DC driver featuring the constant current mode and high voltage output. ELG-100-C operates from 100~360VAC and offers models with different rated current ranging between 350mA and 1400mA. Thanks to the high efficiency up to 92%, 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. ELG-100-C is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding

ELG - 100 - C500 Α

Blank:2-wire input for standard model

- Input wiring type 3Y:3-wire input for standard model **Function options**
- Rated output current (350/500/700/1050/1400mA)
- Rated wattage

Series name

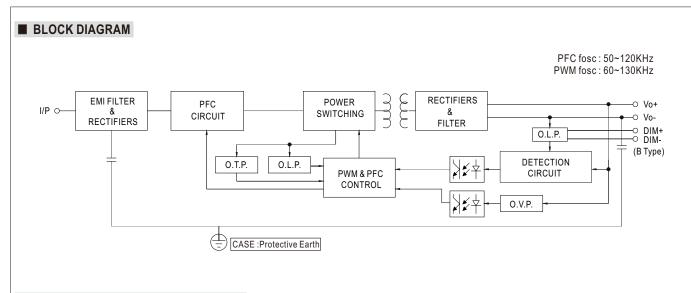
Туре	IP Level	Function	Note
Blank	IP67	lo fixed.	In Stock
A	IP65	lo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
DA	IP67	DALI control technology.	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	In Stock



SPECIFICATION

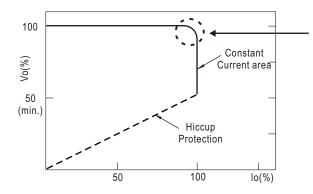
					ELG-100-C1400		
RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA		
	200VAC ~ 305VAC						
RATED POWER	100.1W	100W	100.1W	99.75W	100.8W		
	100VAC ~ 180VAC	1					
	70W	70W	70W	70.35W	70W		
CONSTANT CURRENT REGION Note.2	143 ~ 286V	100 ~ 200V	71 ~ 143V	48 ~ 95V	35 ~ 72V		
OPEN CIRCUIT VOLTAGE(max.)	297V	210V	149V	105V	75V		
	Adjustable for A/AB-T	ype only (via built-in po					
CORRENT ADJ. RANGE	175 ~ 350mA	250 ~ 500mA	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA		
CURRENT RIPPLE	5.0% max. @rated current						
CURRENT TOLERANCE	±5.0%						
SET UP TIME Note.4	1000ms/115VAC 500ms/230VAC						
VOLTAGE RANGE Note.3	100 ~ 305VAC 142 ~ 431VDC continue,320VAC for 24Hrs; 360VAC for 1Hr (Please refer to "STATIC CHARACTERISTIC" section)						
FREQUENCY RANGE	47 ~ 63Hz						
POWER FACTOR (Typ.)	$PF \ge 0.97/115VAC, PF \ge 0.95/230VAC, PF \ge 0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)$						
TOTAL HARMONIC DISTORTION	THD< 20%(@load≧50%/115VC; @load≧60%/230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
EFFICIENCY (Typ.)	92%	91%	91%	90%	90%		
					1		
				Per NEMA 410			
MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC						
	<0.75m4/277\/AC						
NO LOAD / STANDBY	No load power consumption <0.5W for Blank / A / Dx / D2-Type						
		•					
SHORT CIRCUIT		-					
OVER VOLTAGE				110 ~ 130V	79~95V		
OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover						
WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)						
MAX. CASE TEMP.	Tcase=+90°C						
WORKING HUMIDITY	20 ~ 95% RH non-cor	ndensing					
STORAGE TEMP., HUMIDITY	-40~+80°C, 10~959	% RH					
TEMP. COEFFICIENT	±0.03%/°C (0~60°C)					
VIBRATION		,	2min. each along X, Y, Z	axes			
SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12;BS EN/EN/AS/NZS 61347-1, BS EN/EN/AS/NZS 61347-2-13 independent, BS EN/EN62384; EAC TP TC 004;BIS IS15885(for 700A,1050A only);GB19510.1, GB19510.14; IP65 or IP67; KC61347 - 1, KC61347 - 2 - 13 approved						
DALI STANDARDS	Compliance to IEC62	2386-101,102,(207 by	request) for DA Type of	only			
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC						
ISOLATION RESISTANCE							
EMC EMISSION	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@ load ≥ 60%) ; BS EN/EN61000-3-3; GB/T 17743 , GB17625.1; EAC TP TC 020; KC KN15 , KN61547						
	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV); EAC TP TC 020; KC KN15, KN61547						
			e) 300.7Khrs min.	MIL-HDBK-217F (25°	C)		
	1	/					
	0.1						
 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage under rated power delivery. De-rating 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//Upload/PDF/EMI_statement_en.pdf) This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, 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°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 D2 models need to be programmed in the state of loading. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains. For AVAB type need to consider build in using to comply with Type HL application. 							
	RATED POWER RATED POWER CONSTANT CURRENT REGION Note.2 OPEN CIRCUIT VOLTAGE(max.) CURRENT ADJ. RANGE CURRENT RIPPLE CURRENT TOLERANCE SET UP TIME Note.4 VOLTAGE RANGE Note.3 FREQUENCY RANGE POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT (Typ.) AC CURRENT (Typ.) AC CURRENT (Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT NO LOAD / STANDBY POWER CONSUMPTION SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP. HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially m 2. Please refer to "DRIVING METH 3. De-rating may be needed under 4. Length of set up time is measur 5. The driver sonsidered as a co complete installation, the find en (as aveilable on thtps://www.mean.well.com/Upio 1. All parameters NOT specially m 2. Please refer to "DRIVING METH ACKING 1. All parameters NOT specially m 2. Please refer to "DRIVING METH 3. De-rating may be needed under 4. Length of set up time is measur 5. The driver sonsidered as a co complete installation, the find en (as aveilable on thtps://www.mean.well.com/Upio 1. All parameters NOT specially m 3. Please refer to "DRIVING METH 4. The amp application as a co complete installation, the find en (as aveilable on thtps://www.mean.well.com/Upio 1. All parameters NOT specially m 3. The anny application as a co complete installation, the find en (as aveilable on thtps://www.mean.well.com/Upio 1. All parameters NOT specially m 3. The anny application as a co complete installation, the drive as a co complete installation the provide as a co complete installation the prive as a co complete	No. No. Device 200 VAC ~ 305 VAC 100.1W 100 VAC ~ 180 VAC 70W 70W CONSTANT CURRENT REGION Metez 143 ~ 286 V OPEN CIRCUIT VOLTAGE(max) 297 V CURRENT RIPPLE 5.0% max.@rated cut CURRENT TOLERANCE ±5.0% SET UP TIME Note.3 100 - 305 VAC 1 VOLTAGE RANGE 100 - 305 VAC YOUTAGE RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF ≥ 0.97/115 VAC, P PFease refer to "STAF THD < 20% (@load 25)	Constant Current 200VAC - 305VAC International Constant Current International Constant Current CONSTANT CURRENT REGION/was 143 ~ 286V Into - 200V OPEN CIRCUIT VOLTAGE(mus) 297V 210V CURRENT ADJ, RANGE Adjustable for A/AB-Type only (via built-in pr CURRENT TOLERANCE 5.0% max. @rated current CURRENT TOLERANCE 5.0% max. @rated current CURRENT TOLERANCE 100 ~ 305VAC 142 ~ 431VDC continue VOLTAGE RANGE Note.3 Into ~ 305VAC 142 ~ 431VDC continue POWER FACTOR (typ.) PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, DF ≥ 0.95/230VAC, PF ≥ 0.95/230VAC, DF ≥ 0	ALTED POWER 200WAC - 305VAC 100.1W 100W 100.1W 100.1W 100W 100.1W 100.1W 100W 100W 0PEN CIRCUIT VOLTAGE; 297V 100 149V CURRENT ADJ. RANGE 133 - 286V 100 - 200V 11 - 143V CURRENT ADJ. RANGE 133 - 286V 100 - 200V 149V CURRENT ADJ. RANGE 50% max. @rated current CURRENT CURRANCE 15.0% CURRENT ADJ. RANGE 1000 ms/115VAC 500ms/230VAC for 24Hrs; 36 VOLTAGE RANGE 100 - 305VAC 142 - 431VDC continue, 320VAC for 24Hrs; 36 VOLTAGE RANGE 10 - 305VAC 142 - 431VDC continue, 320VAC for 24Hrs; 36 FEQUENCY RANGE 47 - 63Hz 100 - 305VAC 142 - 431VDC continue, 320VAC for 24Hrs; 36 TOTAL HARMONIC DISTORTION FPE: 0.97115VAC, FP = 0.95/230VAC, FP = 0.92277VAC@/UII loa 100 - 305VAC 147 - 63Hz POWER FACTOR (typ.) P2 92% 19% 91% 91% CURL RANGE 110 - 20% (@load&50W/15VC; Gload&50W/15VAC, Gload&50W/15VAC, Gload&50W/15VAC, Gload&50W/15VAC, Gload&50W/15VAC, Gload&50W/15VAC, Gload&50W/15VAC, Gload&50W/15VAC, G	Construct Construct Construct Construct Construct Construct RATED POWER 200/AC - 300/AC 100/W 100.1W 197.5W CONSTRUCT CURRENT REGION and: 143 - 286/V 100 - 200/V 71 - 143/V 48 - 95/V OPER CIRCUTT/OUTAGE_Emp: 257/V 210/V 1149/V 105/V 48 - 95/V OPER CIRCUTT/OUTAGE_Emp: 257/V 210/V 1149/V 105/V 48 - 95/V OPER CIRCUTT/OUTAGE_Emp: 257/V 210/V 1149/V 105/V 48 - 95/V CURRENT RIPPLE 5.0% max. @rated current 220 - 500mA 350 - 700mA 525 - 1050mA CURRENT TOLERANCE 5.0% 500ms/230/VAC 525 - 1050mA 500ms/230/VAC VOLTAGE RANGE 100 - 305/VAC 142 - 431/VDC continue, 320/VAC (or 24His; 360/VAC for 1Hr (Please refer to "POWER FACTOR (PF) (AhAACTERISTIC" section) 100 - 205/(810/480/F) (F15/VC; @load260/V120/VAC; VETAL HARMONC DISTORTION		





DRIVING METHODS OF LED MODULE

 $\%\,$ This series works in constant current mode to directly drive the LEDs.

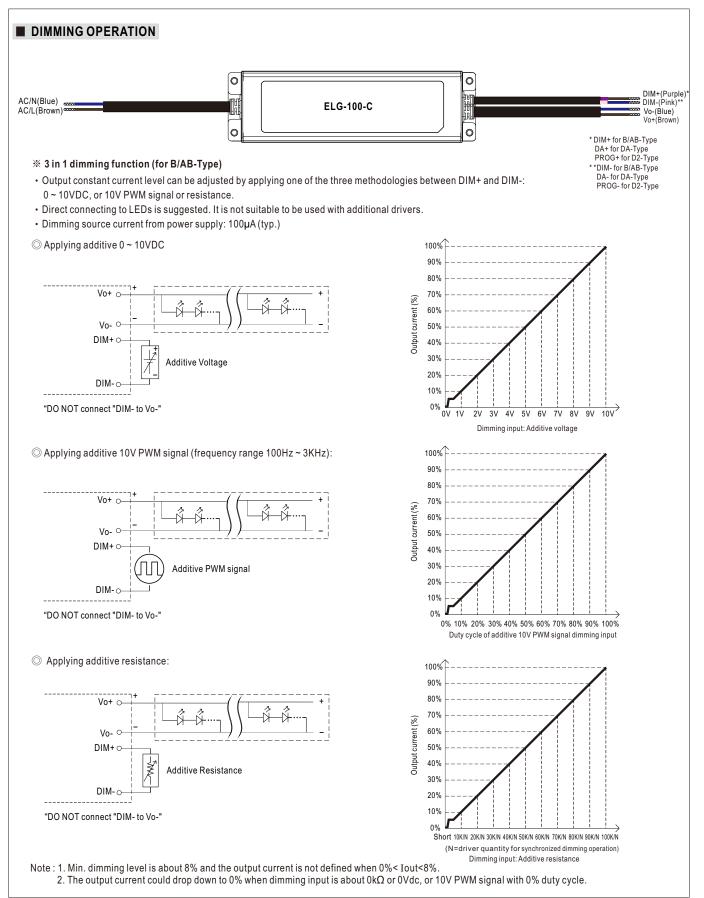


Typical output current normalized by rated current (%)

© This characteristic applies to Blank/A/B/AB/DX/D2-Type, For DA-Type, the Constant Current area is 60%~100% Vo. 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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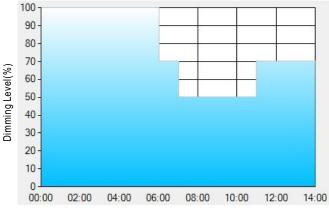
※ DALI Interface (primary side; for DA-Type)

- Apply DALI signal between DA+ and DA-.
- · DALI protocol comprises 16 groups and 64 addresses.
- · First step is fixed at 8% of output.

% Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

Ex : O D01-Type: the profile recommended for residential lighting



Set up for D01-Type in Smart timer dimming software program:

	T1	T2	Т3	Τ4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance:

[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.

[3] The power supply will switch to the constant current level at 50% in turn, starting from 1:00am, which is 07:00 after the power supply turns on.

[4] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 8:00am, which is 14:00 after the power supply turns on.

Ex: O D02-Type: the profile recommended for street lighting



Set up for D02-Type in Smart timer dimming software program:

	T1	T2	Т3	T4	Τ5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%



**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:

[1] The power supply will switch to the constant current level at 50% starting from 5:00pm.

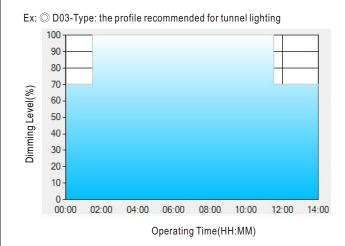
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.

[4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.

[5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.





Set up for D03-Type in Smart timer dimming software program:

	T1	T2	Т3	
TIME**	01:30	11:00		
LEVEL**	70%	100%	70%	

**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

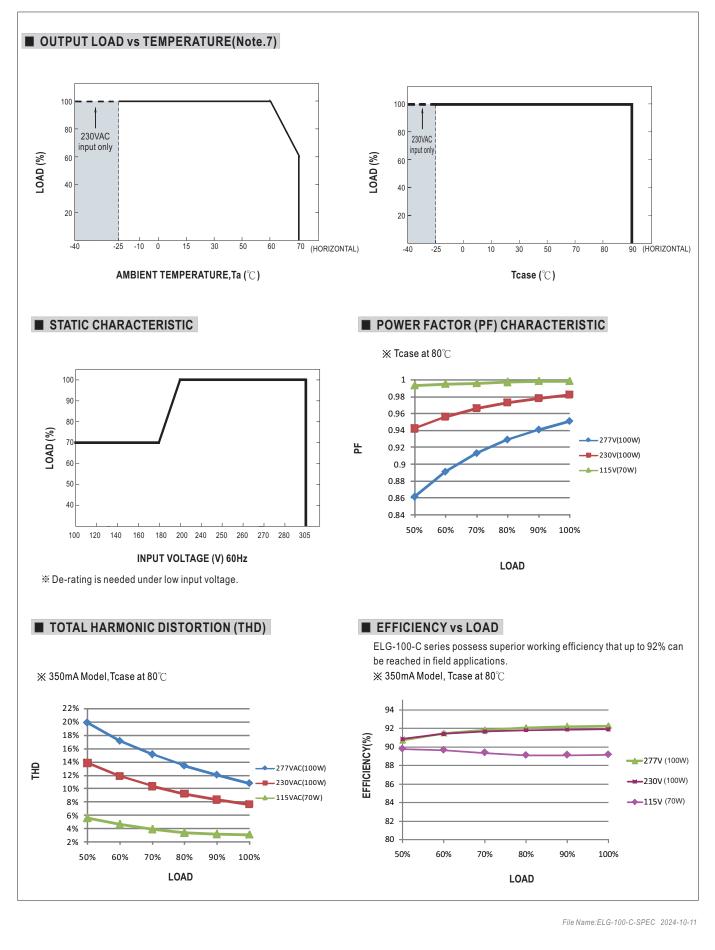
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.

[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



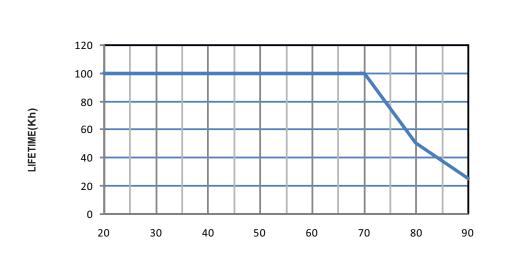
ELG-100-C series





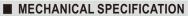
ELG-100-C series

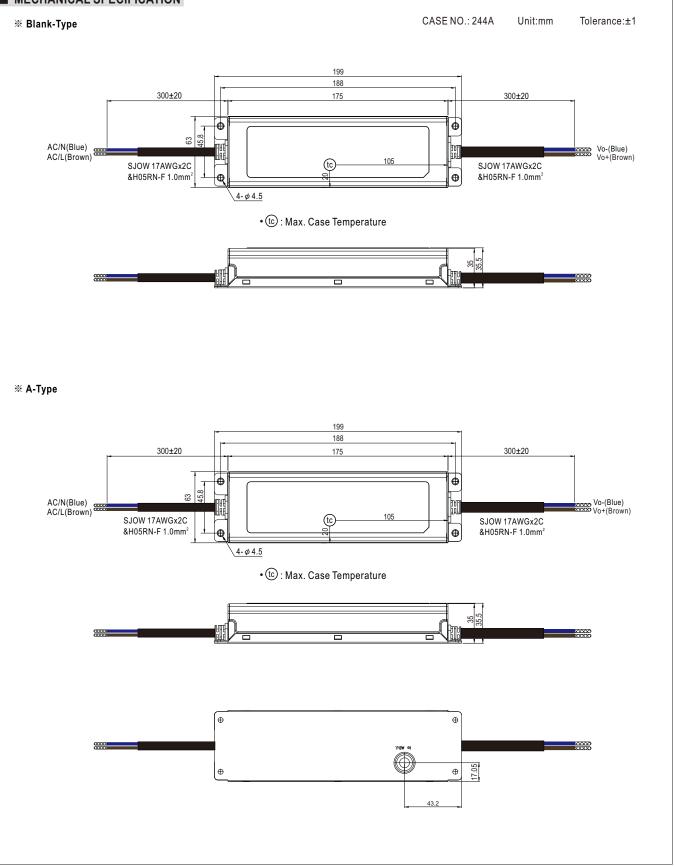
LIFE TIME



Tcase ($^\circ C$)



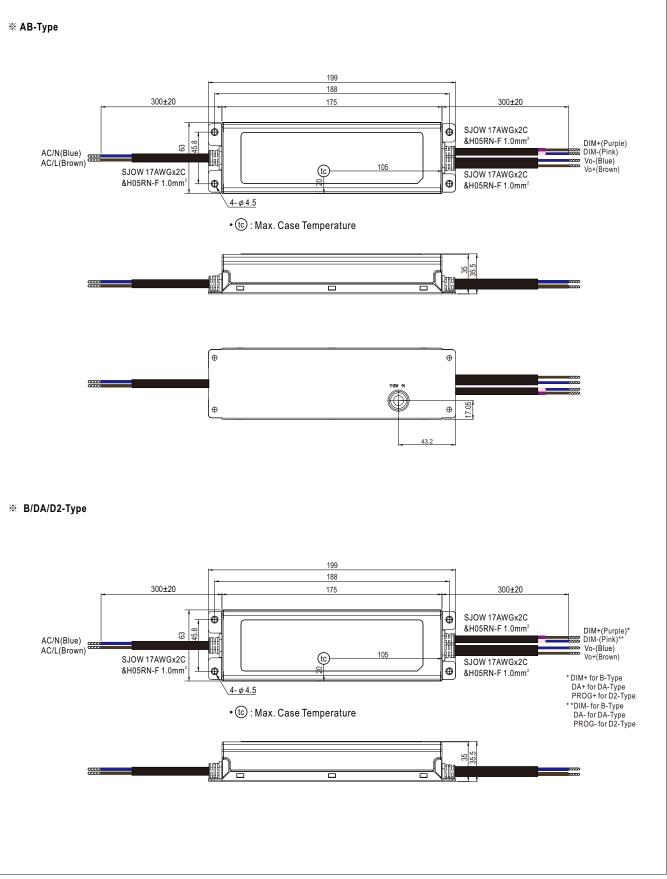




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