



👿 SELV 🕼 IP65 IP67 🕞 🔣 🕫 c 🕦 us 🙆



Features

- · Constant Current mode output
- · Metal housing design with functional Ground
- Built-in active PFC function
- No load / Standby power consumption <0.5W
- · IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming (dim-to-off); Smart timer dimming; DALI
- Typical lifetime>50000 hours
- 5 years warranty

LED street lighting LED harbor lighting

• LED bay lighting

Applications

· LED greenhouse lighting

IS 15885(Part 2/Sec13)

- LED flood lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

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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 $-+90^{\circ}$ 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. 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 A -

Input wiring type

- Function options C3Y:3-wire input for standard model
- Rated output current (350/500/700/1050/1400mA)
- Rated wattage

Series name

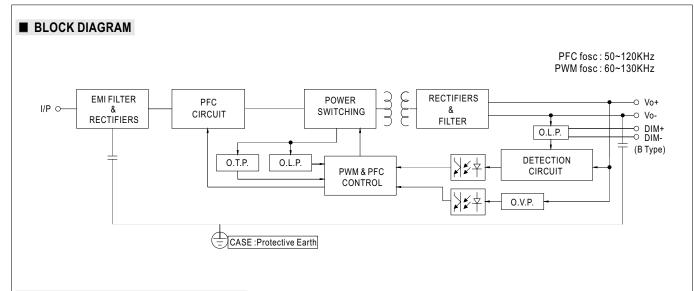
Туре	IP Level	Function	Note
Blank	IP67	lo fixed.	In Stock
A	IP65	lo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal 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

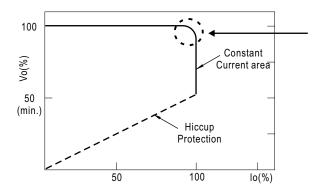
MODEL		ELG-100-C350 🗌	ELG-100-C500	ELG-100-C700	ELG-100-C1050	ELG-100-C1400		
	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA		
		200VAC ~ 305VAC						
		100.1W 100W 100.1W 99.75W 100.8W						
	RATED POWER	100VAC ~ 180VAC			I.	1		
		70W	70W	70W	70.35W	70W		
	CONSTANT CURRENT REGION Note.2	143~286V	100 ~ 200V	71~143V	48~95V	35 ~ 72V		
OUTPUT	OPEN CIRCUIT VOLTAGE(max.)	297V	210V	149V	105V	75V		
		Adjustable for A/AB-Type only (via built-in potentiometer)						
	CURRENT ADJ. RANGE	175 ~ 350mA	250 ~ 500mA	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA		
	CURRENT RIPPLE	5.0% max. @rated c	urrent					
	CURRENT TOLERANCE	±5.0%						
	SET UP TIME Note.4	1000ms/115VAC 500ms/230VAC						
		100 ~ 305VAC	142 ~ 431VDC. continue	a 320VAC for 24Hrs: 36	NVAC for 1Hr			
	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)						
			. ,					
INPUT	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧50%/115VC; @load≧60%/230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
INPUT	EFFICIENCY (Typ.)	92%	91%	91%	90%	90%		
	AC CURRENT (Typ.)	/-		77VAC	0070	3070		
	INRUSH CURRENT(Typ.)		width=760µs measured	-	Dor NEMA 410			
			mutii–700µs measureu	at 30 /0 ipeak//230 VAC				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	NO LOAD / STANDBY	No load power consu	umption <0.5W for Blan	k / A / Dx / D2-Type				
	POWER CONSUMPTION	Standby power consumption <0.5W for B / AB / DA-Type						
	SHORT CIRCUIT	Hiccup mode, recove	ers automatically after fa	ault condition is remove	d			
		305 ~ 333V	222~242V	154 ~ 174V	110~130V	79~95V		
ROTECTION	OVER VOLTAGE	Shut down o/p volta	ge, re-power on to reco	over				
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover						
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTP	UT LOAD vs TEMPERA	ATURE" section)			
	MAX. CASE TEMP.	Tcase=+90°C						
ENVIRONMENT	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	10 ~ 500Hz, 5G 12m	in./1cycle, period for 72	2min. each along X, Y, 2	Zaxes			
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12;EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independent, 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 IEC6	2386-101,102,(207 by	request) for DA Type	only			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC	I/P-FG:2.0KVAC C)/P-FG:1.5KVAC				
EMC	ISOLATION RESISTANCE							
	EMC EMISSION	Compliance to EN55015,EN61000-3-2 Class C (@ load≧60%) ; EN61000-3-3; GB17743 , GB17625.1; EAC TP TC 020; KC KN15 , KN61547						
	EMC IMMUNITY	Compliance to EN61000 EAC TP TC 020; KC KN		7, light industry level (surge	immunity Line-Earth 6KV, Li	ne-Line 4KV);		
OTHERS	MTBF	1087.5K hrs min. Te	cordia SR-332 (Bellcor	e) 300.6Khrs min.	MIL-HDBK-217F (25	°C)		
	DIMENSION	199*63*35.5 mm (L*	W*H)					
	PACKING	0.85kg; 16pcs/14.2k	g/0.72CUFT					
NOTE	 Please refer to "DRIVING M under rated power delivery. De-rating may be needed u Length of set up time is me The driver is considered as complete installation, the fin This series meets the typica Please refer to the warranty The ambient temperature d For any application note an https://www.meanwell.com/ D2 models need to be pro 	teters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. sfer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage ted power delivery. may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. f set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. er is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. as meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 80°C or less. afer to the warranty statement on MEAN WELL's website at http://www.meanwell.com ient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500f application note and IP water proof function installation caution, please refer our user manual before using. ww.meanwell.com/Upload/PDF/LED_EN.pdf lels need to be programmed in the state of loading. Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						





DRIVING METHODS OF LED MODULE

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

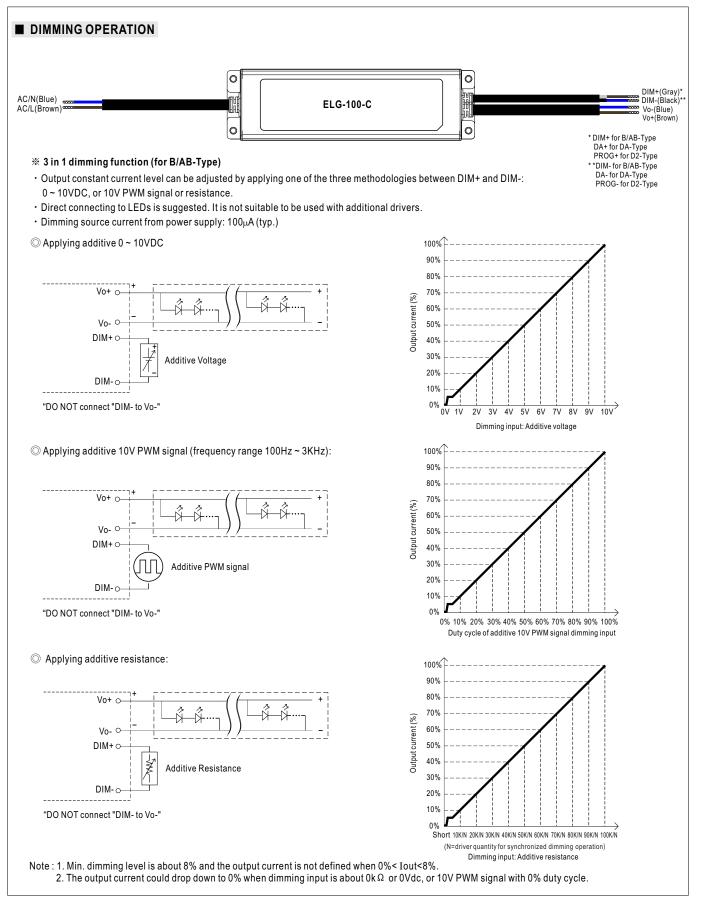


Typical output current normalized by rated current (%)

© 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.





File Name:ELG-100-C-SPEC 2020-09-25



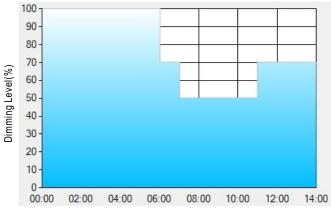
※ DALI Interface (primary side; for DA-Type)

- 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:

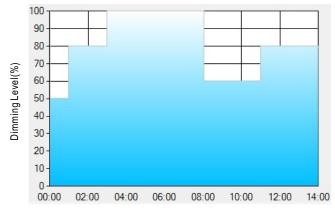
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

Operating Time(HH:MM)

**: 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.

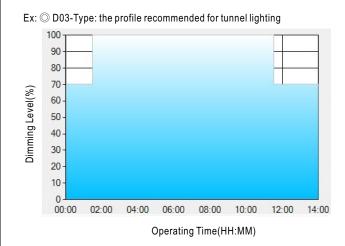
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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.

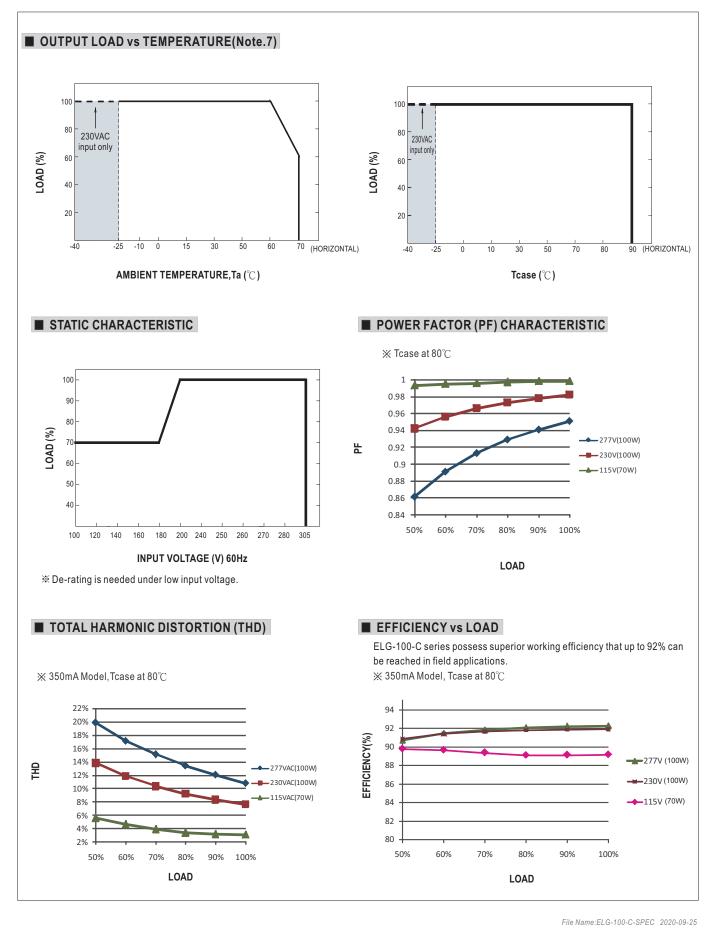
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

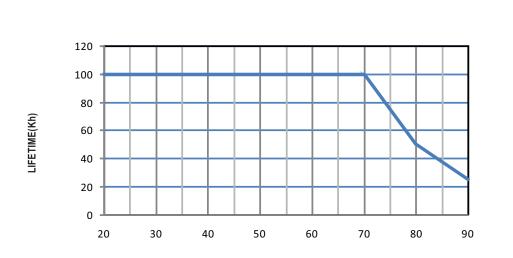






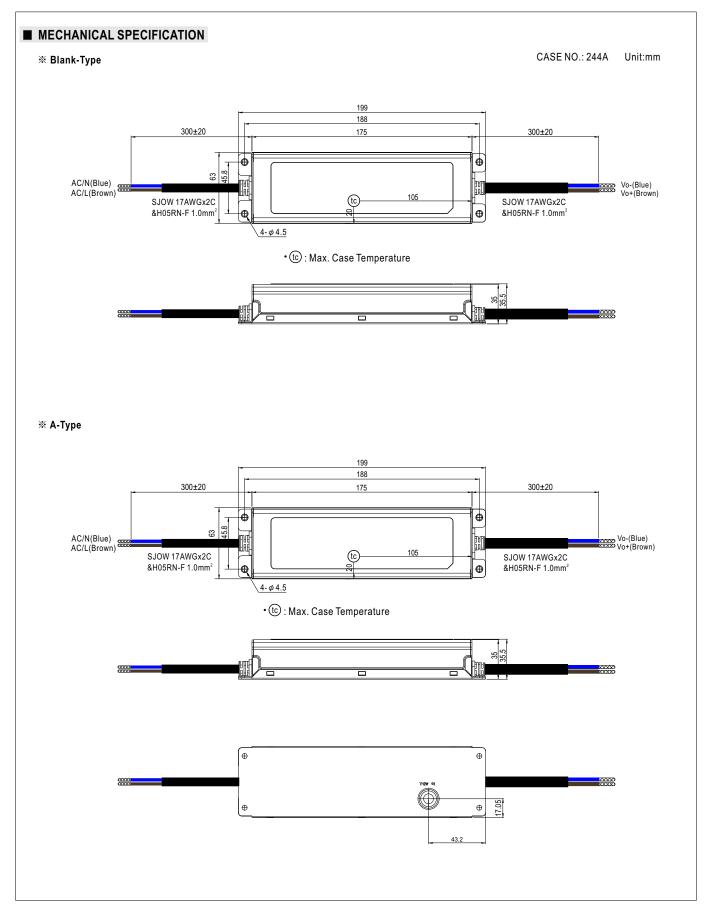
ELG-100-C series

LIFE TIME



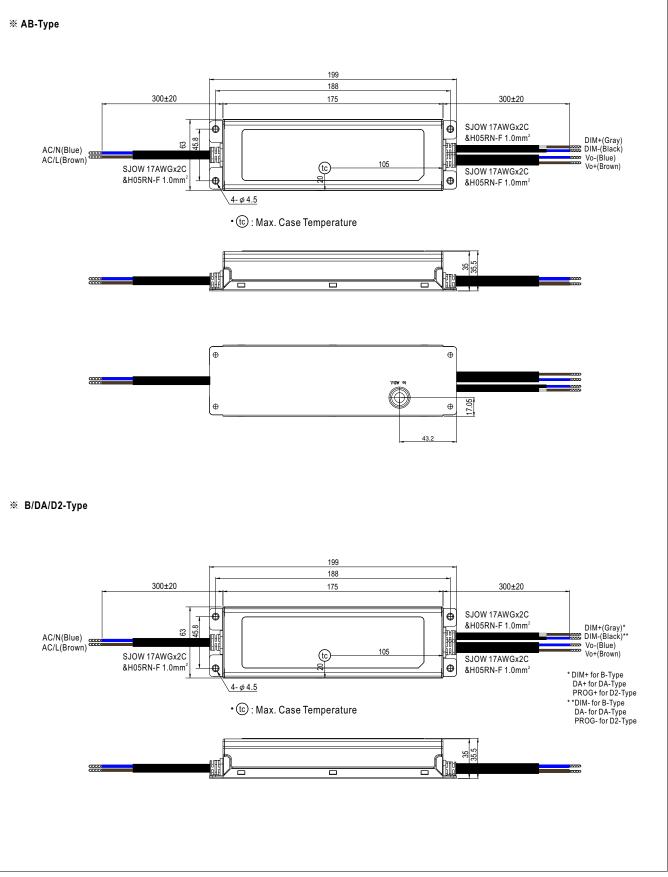
Tcase ($^\circ\!\mathbb{C}$)







ELG-100-C series



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