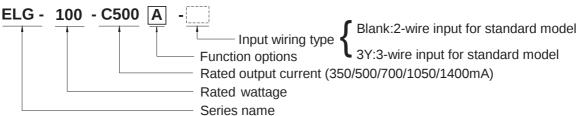


Description

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



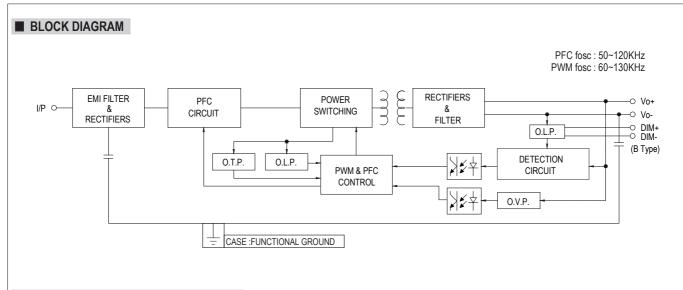
Туре	IP Level	Function		
Blank	IP67	lo fixed.		
A	IP65	Io adjustable through built-in potentiometer.		
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)		
DA	IP67	DALI control technology.		
Dx	IP67	Built-in Smart timer dimming function by user request.		
D2	IP67	Built-in Smart timer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



SPECIFICATION

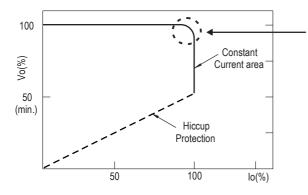
MODEL		ELG-100-C350 🗌	ELG-100-C500	ELG-100-C700	ELG-100-C1050	ELG-100-C1400	
	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA	
		200VAC ~ 305VAC					
		100.1W	100W	100.1W	99.75W	100.8W	
	RATED POWER	100VAC ~ 180VAC					
		70W	70W	70W	70.35W	70W	
	CONSTANT CURRENT REGION Note.2	143 ~ 286V	100 ~ 200V	71~143V	48 ~ 95V	35 ~ 72V	
	OPEN CIRCUIT VOLTAGE (max.)		210V	149V	105V	75V	
OUTPUT	(Adjustable for A-Type only (via built-in potentiometer)					
JUIPUI	CURRENT ADJ. RANGE	175 ~ 350mA 250 ~ 500mA 350 ~ 700mA 525 ~ 1050mA 700 ~ 1400mA					
	CURRENT RIPPLE	5.0% max. @rated cur	rent				
	CURRENT TOLERANCE	±5.0%					
	SET UP TIME Note.4	1000ms/115VAC 500ms/230VAC					
				00)/40 6 0411 200)/40	6 41 In		
	VOLTAGE RANGE Note.3			20VAC for 24Hrs; 360VAC	for 1Hr		
		(Please refer to "STATIC CHARACTERISTIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)		[:] ≧ 0.95/230VAC, PF≧ ER FACTOR (PF) CHAR				
			()	,			
	TOTAL HARMONIC DISTORTION			80VAC; @load 75%/27	VAC)		
INPUT			L HARMONIC DISTOR				
	EFFICIENCY (Typ.)	92%	91%	90%	90%	90%	
	AC CURRENT (Typ.)	1.1A / 115VAC 0.6	SA / 230VAC 0.5A/27	7VAC			
	INRUSH CURRENT (Typ.)	COLD START 40A(twidth= 760 µs measured at 50% lpeak)/230VAC ; 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					
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	NO LOAD / STANDBY	No load power consumption <0.5W for Blank / A / Dx / D2-Type					
	POWER CONSUMPTION	Standby power consumption <0.5W for B / DA-Type					
	SHORT CIRCUIT	Hiccup mode, recovers	automatically after fault	condition is removed			
		305 ~ 333V	222 ~ 242V	154 ~ 174V	110 ~ 130V	79 ~ 95V	
ROTECTION	OVER VOLTAGE	Shut down o/p voltage,	re-power on to recover				
	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.						
	WORKING HUMIDITY		densing				
	STORAGE TEMP., HUMIDITY	20 ~ 95% RH non-condensing					
		-40 ~ +80 °C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60 °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. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384 ;					
		GB19510.1 GB19510.14 ; IP65 or IP67 approved					
	DALI STANDARDS	Compliance to IEC62386-101, 102, 207 for DA-Type only					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 °C/ 70% RH					
	EMC EMISSION	Compliance to EN55015,EN61000-3-2 Class C (@ load ≧ 60%) ; EN61000-3-3 ; GB17743 , GB17625.1					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)					
	MTBF	1087.5K hrs min. Telcordia SR-332 (Bellcore) 300.6Khrs min. MIL-HDBK-217F (25 °C)					
OTHERS	DIMENSION	199'63 *35.5 mm (L*W*H)					
	PACKING	0.85kg; 16pcs/14.2kg/0).72CUFT				
NOTE	 Please refer to "DRIVING under rated power delivery De-rating may be needed if Length of set up time is most the driver is considered as complete installation, the f This series meets the typic 	T specially mentioned are measured at 230VAC input, rated irrent and 25°C of ambient temperature. RVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage					





■ DRIVING METHODS OF LED MODULE

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

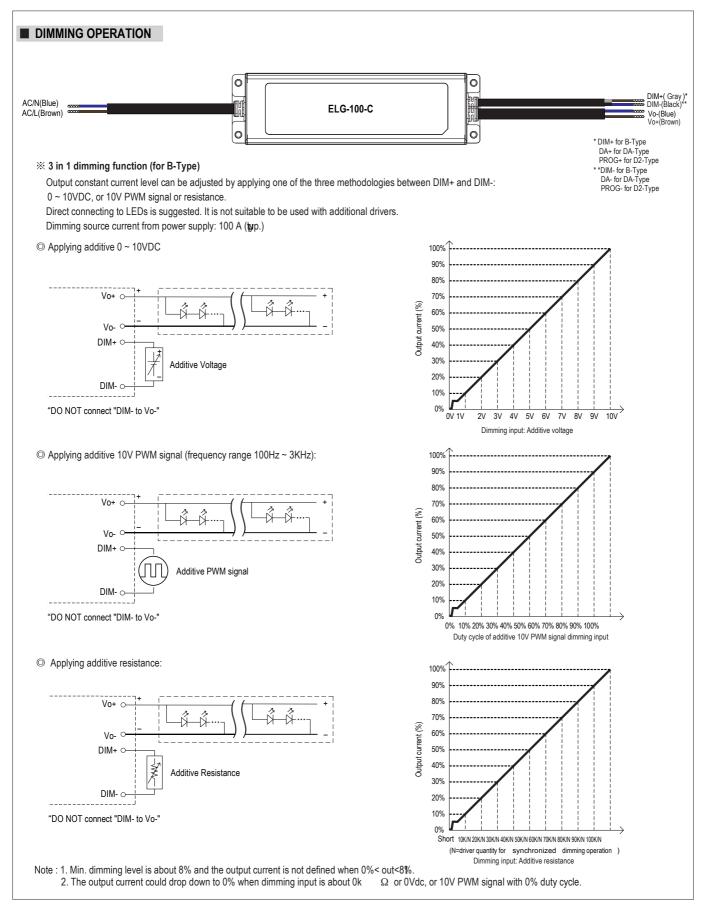


Typical output current normalized by rated current (%)

 This characteristic applies to Blank/A/B/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.







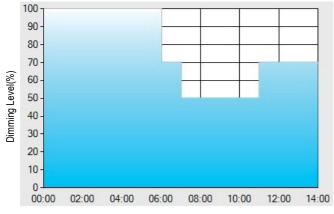
※ DAL I Interface (primary side; for DA-Type)

Apply DALI signal between DA+ and DA- . DAL I 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.





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

	T1	T2	Т3	T4
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:

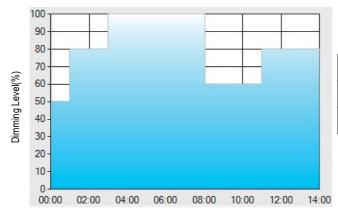
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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.

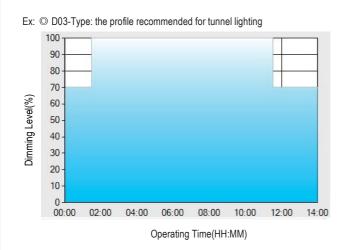
[5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The

constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



70~100W Constant Current Mode LED Driver

ELG-100-Ceries



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:

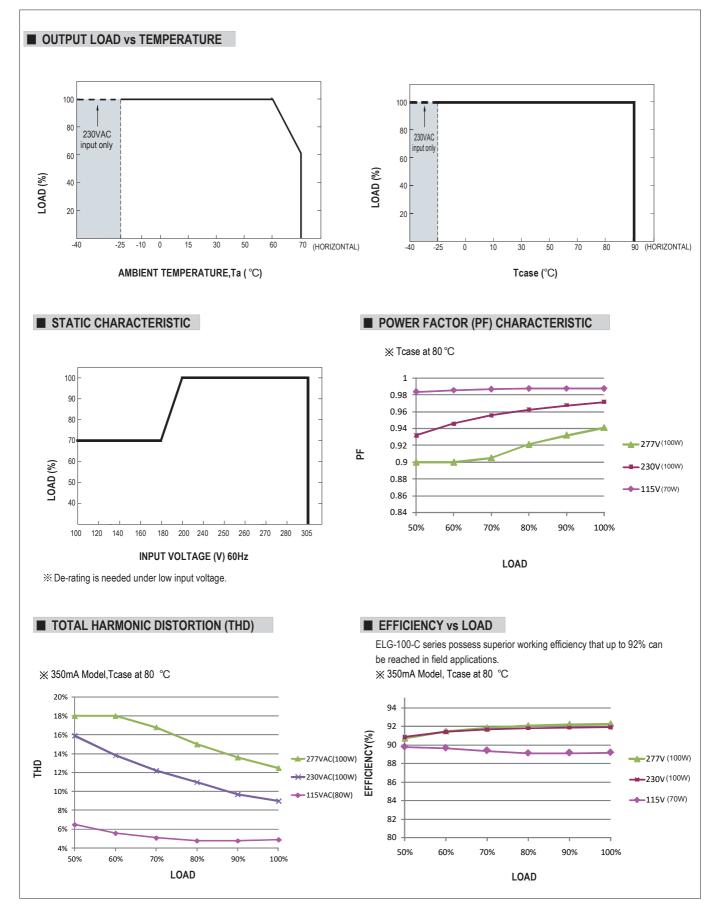
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[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 6:30 am, which is 14:00 after the power supply turns on.

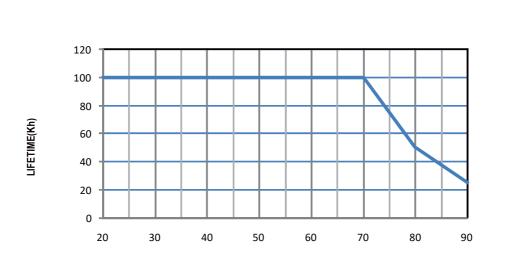




File Name:ELG-100-C-SPEC 2017-04-28



LIFE TIME



Tcase(°C)



