

IS 15885(Part 2/Sec13)



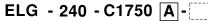
Features

- 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

Description

ELG-240-C series is a 240W LED AC/DC driver featuring the constant current mode and high voltage output. ELG-240-C operates from 100~305VAC and offers models with different rated current ranging between 700mA and 2100mA. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for -40° C $-+85^{\circ}$ 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-240-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



Blank:2-wire input for standard model

- Function options
- Rated output current (700/1050/1400/1750/2100mA)
- Output 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

Applications

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

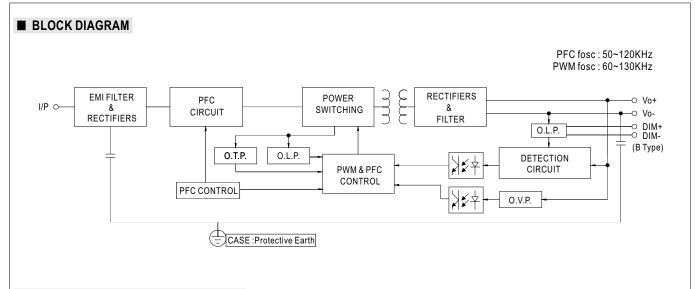


SPECIFICATION

MODEL		ELG-240-C700	ELG-240-C1050	ELG-240-C1400	ELG-240-C1750	ELG-240-C2100		
	RATED CURRENT	700mA	1050mA	1400mA	1750mA	2100mA		
		200VAC ~ 305VAC						
		240.1W	239.4W	239.4W	239.75W	241.5W		
	RATED POWER	100VAC ~ 180VAC			1			
		179.9W	179.55W	179.2W	178.5W	180.6W		
	CONSTANT CURRENT REGION Note.2	172 ~ 343V	114 ~ 228V	86 ~ 171V	69 ~ 137V	57 ~ 115V		
	OPEN CIRCUIT VOLTAGE(max.)	360V	239V	180V	144V	120V		
OUTPUT		Adjustable for A/AB-T	ype only (via built-in po	tentiometer)	1	· ·		
001101	CURRENT ADJ. RANGE	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA	875 ~ 1750mA	1050 ~ 2100mA		
	CURRENT RIPPLE	5.0% max. @rated current						
	CURRENT TOLERANCE	±5.0%						
	SET UP TIME Note.4	800ms/115VAC, 500ms/230VAC						
		100 ~ 305VAC 142 ~ 431VDC						
	VOLTAGE RANGE Note.3	(Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz						
		$PF \ge 0.97/115VAC, PF \ge 0.95/230VAC, PF \ge 0.92/277VAC@full load$						
	POWER FACTOR (Typ.)			0.95/230VAC, PF ≧ 0.92/277VAC@full load FACTOR (PF) CHARACTERISTIC" section)				
		THD<20%(@load≧50%/115VC,230VAC; @load≧75%/277VAC)						
INPUT	TOTAL HARMONIC DISTORTION			DRTION(THD)" section	n)			
INPUT	EFFICIENCY (Typ.)	93%	93%	93%	93%	93%		
	AC CURRENT (Typ.)		A / 230VAC 1.2A/27		5070	0070		
+	INRUSH CURRENT(Typ.)			at 50% Ipeak)/230VAC				
	MAX. No. of PSUs on 16A		nutil-400µ3 measureu					
-	CIRCUIT BREAKER	2 units (circuit breake	er of type B) / 4 units (c	ircuit 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 / AB / DA-Type Hiccup mode, recovers automatically after fault condition is removed						
	SHORT CIRCUIT		-		1			
	OVER VOLTAGE	380~435V	250~290V	192~216V	153 ~ 175V	128 ~ 156V		
ROLETION		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 ~ +85°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+85℃						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
NVIRONMENT	STORAGE TEMP., HUMIDITY	-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;EN/AS/NZS 61347-1,EN/AS/NZS 61347-2-13 independent, EN62384 GB19510.14,GB19510.1;BIS IS15885(for 700A/1050A only);IP65 or IP67;						
		KC61347-1,KC61347-2-13 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							
	EMC EMISSION	Compliance to EN550 EAC TP TC 020; KC		C (@load≧50%) ; EN6	1000-3-3; GB17625.1, C	GB17743;		
	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); EAC TP TC 020; KC KN15, KN61547						
	MTBF	958.9K hrs min. Telcordia SR-332 (Bellcore) 235Khrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	244*71*37.5 mm (L*V	V*H)					
	PACKING	1.22Kg; 12pcs /15.2k	g / 0.72CUFT					
NOTE	 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". 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 power supply 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. 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(6500). For any application note and IP water proof function installation caution, please refer our user manual before using. 							
	https://www.meanwell.com/	Upioad/PDF/LED_EN.pdf	ſ		File Nar	ne:ELG-240-C-SPEC 2018-0		

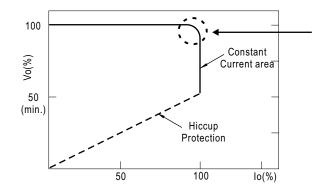


ELG-240-C series



■ DRIVING METHODS OF LED MODULE

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

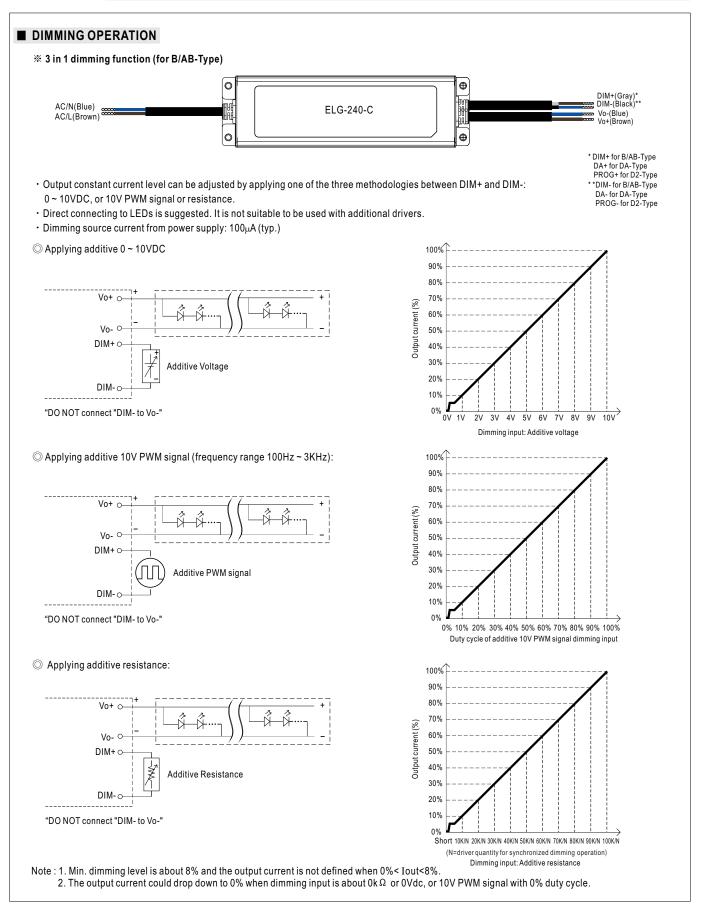


Typical output current normalized by rated current (%)

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.







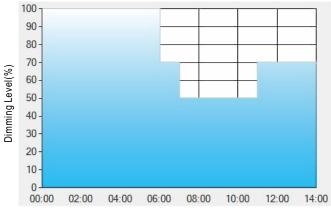
※ DALI Interface (primary side; for DA-Type)

- 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:

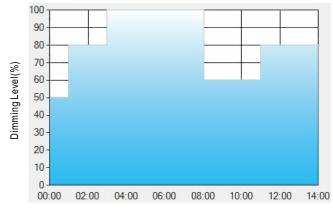
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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.

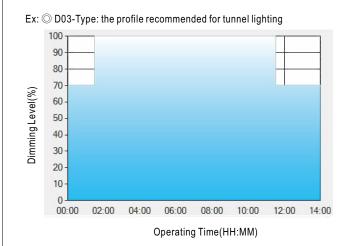
Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:

[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.

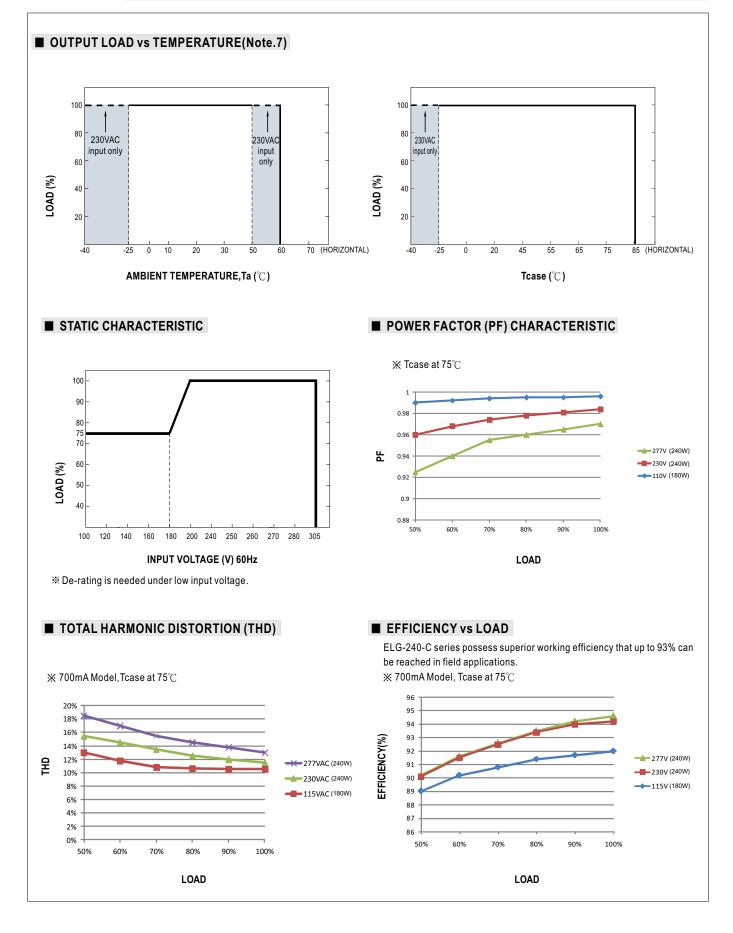
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

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

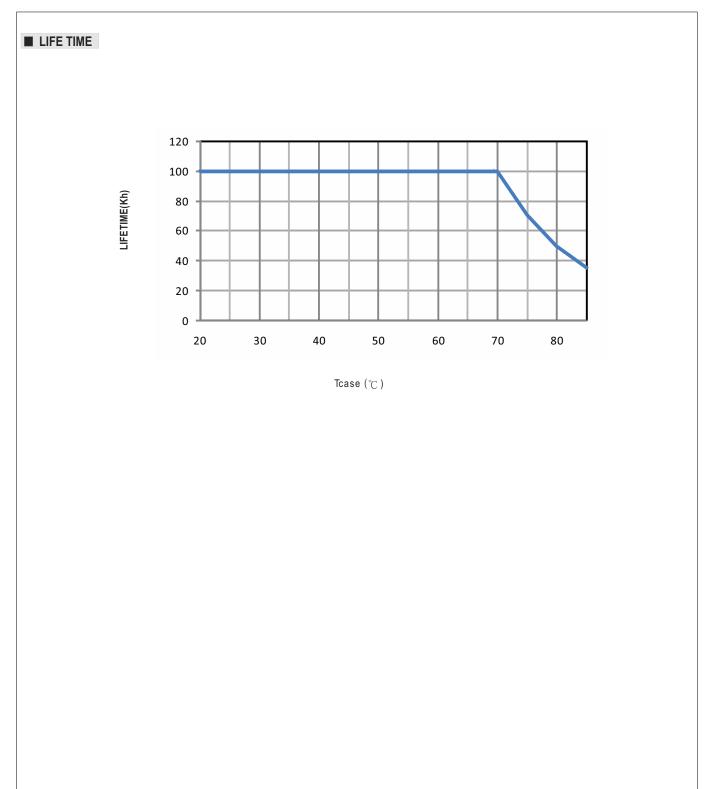
[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.

[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.











■ MECHANICAL SPECIFICATION CASE NO.: 262A Unit:mm ※ Blank-Type 244 233 300±20 220 300±20 • ₼ 71 AC/N(Blue) AC/L(Brown) Vo-(Blue) Vo+(Brown) 盟 79 R tc SJOW 17AWGx2C SJOW 17AWGx2C 8 &H05RN-F 1.0mm² ⊕ &H05RN-F 1.0mm² Ð 4-ø4.5 • tc : Max. Case Temperature 37.5 ※ A-Type 244 233 300±20 300±20 220 0 ⇔ 71 53.8 – AC/N(Blue) AC/L(Brown) Vo-(Blue) Vo+(Brown) 79 HAE (tc) SJOW 17AWGx2C SJOW 17AWGx2C 32 &H05RN-F 1.0mm² • &H05RN-F 1.0mm Ð 4-ø4.5 • (tc) : Max. Case Temperature 37.5 000000 . ⊕ ⊕ C..... ***** TOV Ó \oplus 19 ⊕ 41.75





