

Наличие и актуальные цены на

# **ELG-240-C700A**

https://www.meanwell.ru/store/ELG-240-C700A/











#### Features

- · Constant Current mode output
- · Metal housing design with functional Ground
- Built-in active PFC function
- No load / Standby power consumption < 0.5W</li>
- 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

## 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.

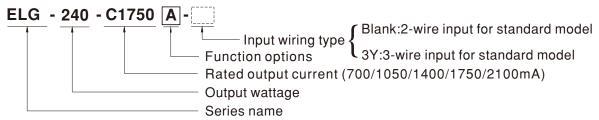
#### **■** GTIN CODE

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

## 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 $^{\circ}$ 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



Туре	IP Level	Function	Note
Blank	IP67	lo fixed.	In Stock
Α	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



#### SDECIEICATION

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						
	DATED DOWED	240.1W	239.4W	239.4W	239.75W	241.5W		
	RATED POWER	100VAC ~ 180VAC						
		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		
ОИТРИТ	CURRENT ADJ. RANGE	Adjustable for A/AB-T	ype only (via built-in po	tentiometer)				
		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, 500m	800ms/115VAC, 500ms/230VAC					
	VOLTAGE RANGE Note.3	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz						
	I NEQUENCT RANGE		=>0.05/220\/AC.DE>/	00/077\/AC@full laad				
	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)						
INDUT	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧50%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
INPUT	EFFICIENCY (Typ.)	93%	93%	93%	93%	93%		
	AC CURRENT (Typ.)				3370	9576		
	INRUSH CURRENT(Typ.)							
	MAX. No. of PSUs on 16A	COLD START 75A(twidth=450µs measured at 50% Ipeak)/230VAC; Per NEMA 410						
	CIRCUIT BREAKER	2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	NO LOAD / STANDBY POWER CONSUMPTION							
	SHORT CIRCUIT	• • •	rs automatically after fa		d			
		380 ~ 435V	250 ~ 290V	192 ~ 216V	153 ~ 175V	128 ~ 156V		
ROTECTION	OVER VOLTAGE	Shut down o/p voltag	e, re-power on to reco		1.55	122 122		
	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°C						
	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;BS EN/EN/AS/NZS 61347-1,BS EN/EN/AS/NZS 61347-2-13 independent, BS EN/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 by request) for DA Type only						
SAFETY &		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  Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 50%); BS EN/EN61000-3-3;						
	EMC EMISSION	GB/T 17743, GB17625.1; EAC TP TC 020; KC KN15, KN61547						
	EMC IMMUNITY	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						
	MTBF	2730.9K hrs min. Telcordia SR-332 (Bellcore); 235K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	244*71*37.5 mm (L*W*H)						
-	PACKING	1.22Kg; 12pcs /15.2kg / 0.72CUFT						
NOTE	1. All parameters NOT specially	rentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.						

#### NOTE

- All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ 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.

   (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℃ 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℃/1000m with fanless models and of 5℃/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

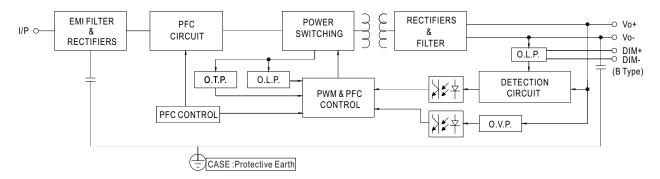
- For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED\_EN.pdf
- 10. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.

  11. For A/AB type need to consider build in using to comply with Type HL application.
- $\hbox{$\times$ Product Liability Disclaimer: For detailed information, please refer to $https://www.meanwell.com/serviceDisclaimer.aspx}$$



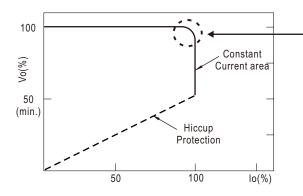
#### ■ BLOCK DIAGRAM

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



#### ■ DRIVING METHODS OF LED MODULE

 $\divideontimes$  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.

\* DIM+ for B/AB-Type DA+ for DA-Type PROG+ for D2-Type \*\*DIM- for B/AB-Type

DA- for DA-Type PROG- for D2-Type

#### **■ DIMMING OPERATION**

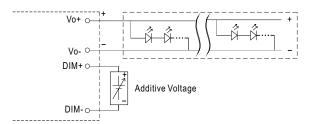
※ 3 in 1 dimming function (for B/AB-Type)



· Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.

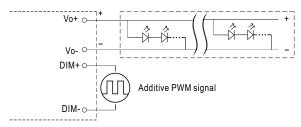
178.5~240W Constant Current Mode LED Driver

- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



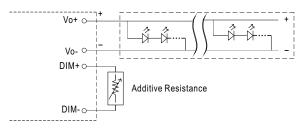
"DO NOT connect "DIM- to Vo-"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

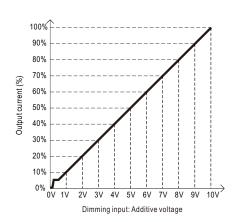


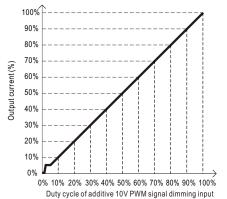
"DO NOT connect "DIM- to Vo-"

Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





90% 80% 70% Output current (%) 60% 50% 40% 30% 20% 10% Short 10K/N 20K/N 30K/N 40K/N 50K/N 60K/N 70K/N 80K/N 90K/N 100K/N (N=driver quantity for synchronized dimming operation) Dimming input: Additive resistance

Note: 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<8%.

2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.



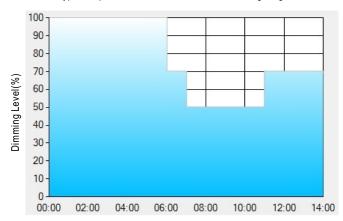
#### DALI Interface (primary side; for DA-Type)

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

#### **X** 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	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

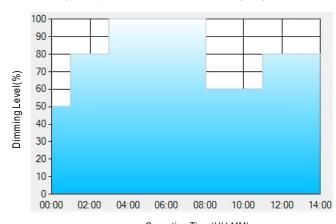
Operating Time(HH:MM)

- \*\*: 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



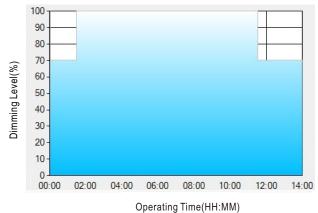
Set up for D02-Type in Smart timer dimming software program:

	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.

Ex: O D03-Type: the profile recommended for tunnel lighting



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

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

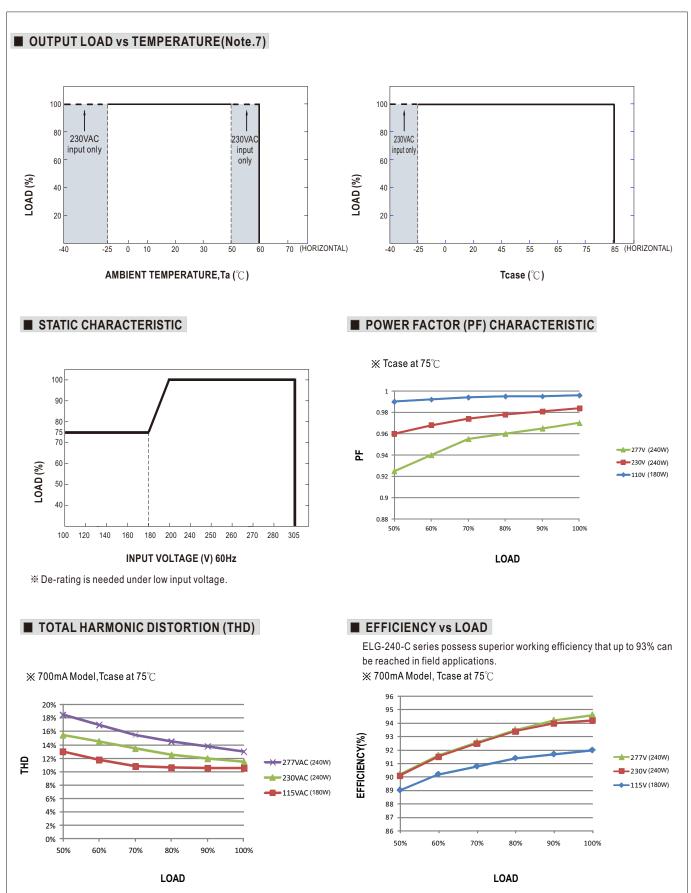
\*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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 5:00 am, which is 11:00 after the power supply turns on.

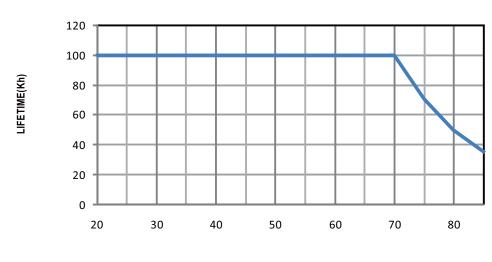
The constant current level remains till  $6:30\,\mathrm{am}$ , which is 14:00 after the power supply turns on.



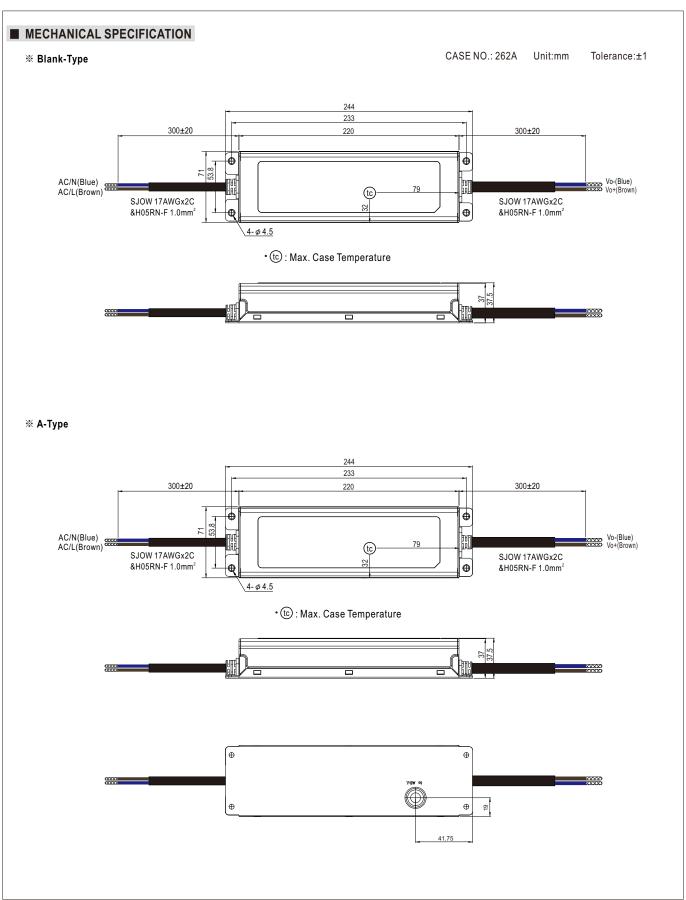




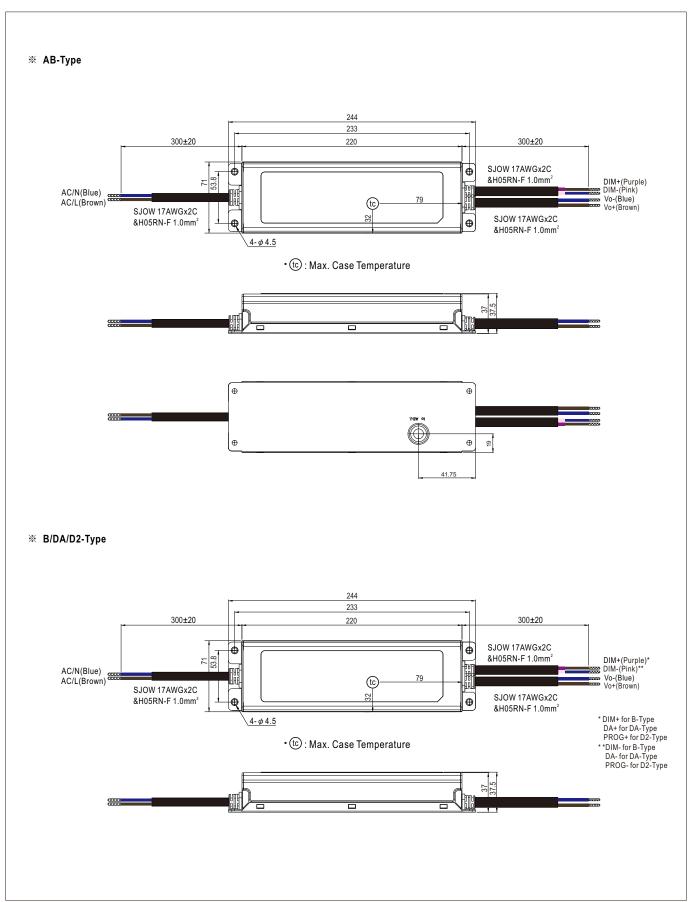
## ■ LIFE TIME





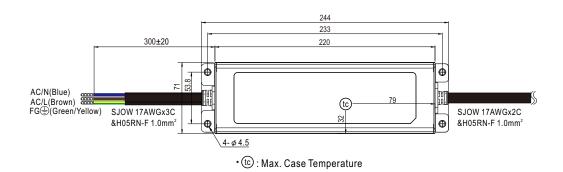






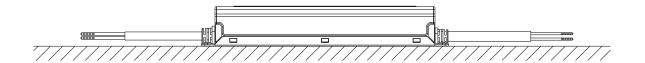


#### ※ 3Y Model (3-wire input)



- O Note1: Please connect the case to PE for the complete EMC deliverance and safety use.
- O Note2: Please contact MEAN WELL for input wiring option with PE.

#### ■ Recommend Mounting Direction



#### ■ INSTALLATION MANUAL

Please refer to:http://www.meanwell.com/manual.html