



IS 15885(Part 2/Sec13)

8 R-41027766

(tor DA-Type only)

### 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

### Description

ELG-200-C series is a 200W LED AC/DC driver featuring the constant current mode and high voltage output. ELG-200-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-200-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 - 200 - C700 A -	,	
	Input wiring type	Blank:2-wire input for standard model
		3Y:3-wire input for standard model
	Rated output current (7	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

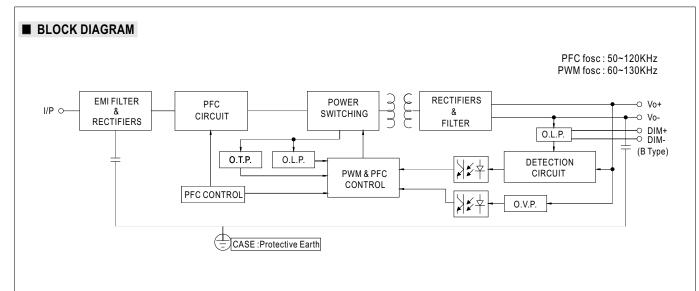
- LED flood lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.



### SPECIFICATION

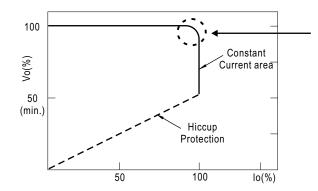
MODEL		ELG-200-C700	ELG-200-C1050	ELG-200-C1400	ELG-200-C1750	ELG-200-C2100
-	RATED CURRENT	700mA	1050mA	1400mA	1750mA	2100mA
		200VAC ~ 305VAC				
	RATED POWER	200.2W	199.5W	198.8W	199.5W	201.6W
		100VAC ~ 180VAC				
		150.5W	150.15W	149.8W	150.5W	151.2W
	CONSTANT CURRENT REGION Note.2	142 ~ 286V	95 ~ 190V	71 ~ 142V	57 ~ 114V	48~96V
	OPEN CIRCUIT VOLTAGE(max.)	300V	200V	160V	120V	105V
ОЛТЬЛТ		Adjustable for A/AB-	Type only (via built-in po	tentiometer)		
	CURRENT ADJ. RANGE	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA	875 ~ 1750mA	1050 ~ 2100mA
	CURRENT RIPPLE	5.0% max. @rated c	urrent			
	CURRENT TOLERANCE	±5.0%				
	SET UP TIME Note.4	800ms/115VAC, 500	ms/230VAC			
			142 ~ 431VDC			
	VOLTAGE RANGE Note.3		TIC CHARACTERISTIC	C" section)		
	FREQUENCY RANGE	47 ~ 63Hz		1		
			F≧0.95/230VAC, PF≧	0 02/277\/AC@full load	1	
	POWER FACTOR (Typ.)		$P \ge 0.957230$ VAC, $PP \ge 0.9572300$ VAC, $PP $			
			50%/115VC,230VAC; (		,	
INPUT	TOTAL HARMONIC DISTORTION	(Please refer to "TO	TAL HARMONIC DIST	ORTION(THD)" sectio	n)	
	EFFICIENCY (Typ.)	93%	93%	92%	92%	92%
	AC CURRENT (Typ.)		A / 230VAC 1.0A/27		5270	5270
			vidth=680µs measured			
	(), ,		wiutii=000μs measureu			
	MAX. No. of PSUs on 16A 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	No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA-Type				
	SHORT CIRCUIT		ers automatically after fa	••	d	
		315 ~ 370V	205 ~ 250V	160 ~ 180V	125 ~ 150V	105 ~ 130V
ROTECTION	OVER VOLTAGE		ge, re-power on to reco		123 ~ 130 V	105 * 150 v
			• •			
			ge, re-power on to reco			
	WORKING TEMP.		Please refer to " OUTP	JI LOAD VS IEMPERA	TURE Section)	
	MAX. CASE TEMP.	Tcase=+85℃				
	WORKING HUMIDITY	20 ~ 95% RH non-co	-			
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95				
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C	,			
	VIBRATION	10 ~ 500Hz, 5G 12m	in./1cycle, period for 72	2min. each along X, Y, Z	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, EN GB19510.14,GB19510.1;EAC TP TC 004;BIS IS15885(for 700A 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 &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC		/P-FG:1.5KVAC		
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/F	P-FG:100M Ohms / 500	VDC / 25°C / 70% RH		
	EMC EMISSION	ICE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH Compliance to EN55015,EN61000-3-2 Class C (@load ≥50%) ; EN61000-3-3; GB17625.1, GB17743; EAC TP TC 020; KC KN15 , KN61547				
EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level(surge immunity:Line-Earth:6 EAC TP TC 020; KC KN15, KN61547				th:6KV,Line-Line:4KV)		
	MTBF	958.9K hrs min. Telc	ordia SR-332 (Bellcore)	235Khrs min.	MIL-HDBK-217F (25°C	)
OTHERS	DIMENSION	244*71*37.5 mm (L*				
	PACKING	1.22Kg; 12pcs /15.2	,			
NOTE	<ol> <li>All parameters NOT special</li> <li>Please refer to "DRIVING M</li> <li>De-rating may be needed ui</li> <li>Length of set up time is meas</li> <li>The driver is considered as complete installation, the fin.</li> <li>This series meets the typica</li> <li>Please refer to the warranty</li> <li>The ambient temperature de</li> <li>For any application note and https://www.meanwell.com/U</li> </ol>	ETHODS OF LED MOI nder low input voltages. asured at first cold start. a component that will be al equipment manufactu I life expectancy of >50, statement on MEAN W arating of 3.5°C/1000m v Jpload/PDF/LED EN.pc	DULE". Please refer to "STATIC Turning ON/OFF the pow e operated in combination rers must re-qualify EMC 000 hours of operation wil ELL's website at http://ww with fanless models and o installation caution, please	CHARACTERISTIC" sect ver supply may lead to im with final equipment. Sin Directive on the complet nen Tcase, particularly ( $tc$ w.meanwell.com f 5°C/1000m with fan mo se refer our user manual l	ions for details. crease of the set up time. ce EMC performance will a installation again. ) point (or TMP, per DLC) dels for operating altitude pefore using.	, is about 85°C or less. higher than 2000m(650





### ■ DRIVING METHODS OF LED MODULE

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

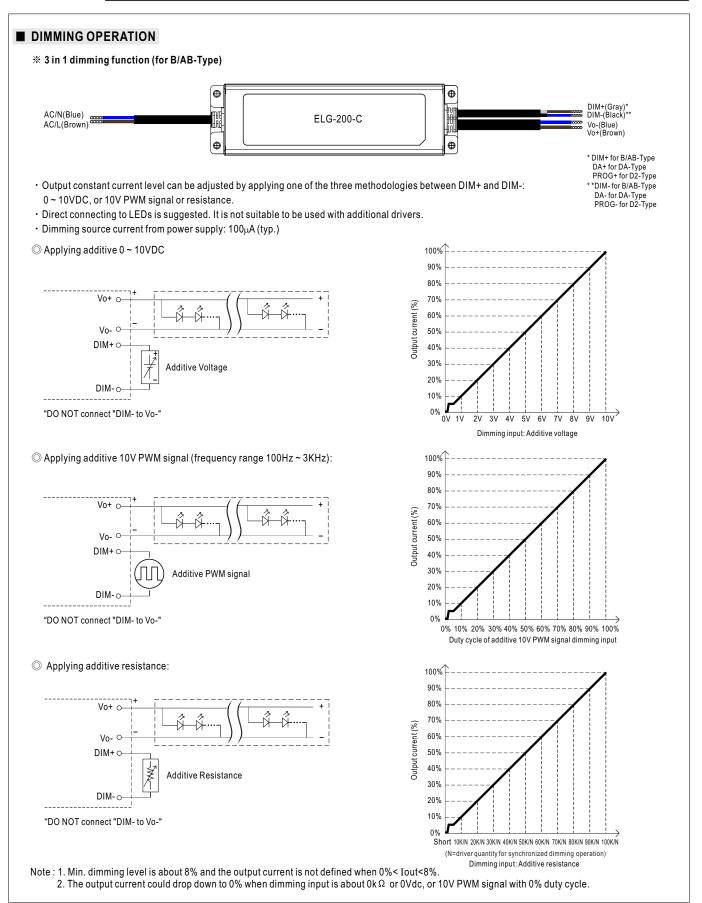


Typical output current normalized by rated current (%)

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.







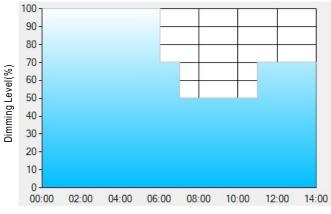
#### ※ DALI Interface (primary side; for DA-Type)

- 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.

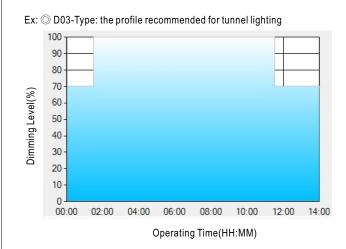
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

- [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.



## ELG-200-C series



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.

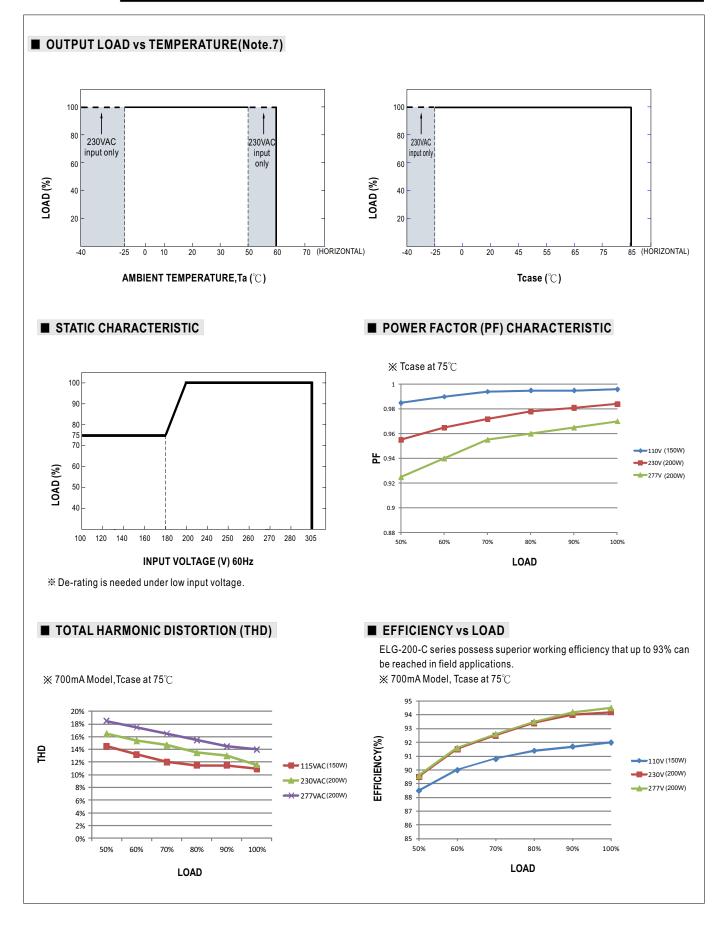
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

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

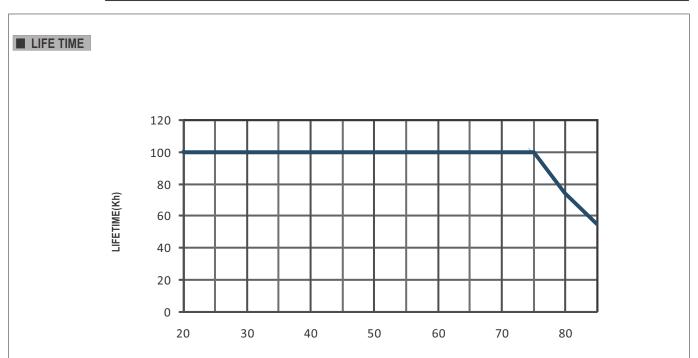
[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.

[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.









Tcase (°C)



