



S 15885(Part 2/Sec13) R-41027766 (for 700 apply)

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-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° 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	Α	= []
1		1	T	Input wiring ty
				— Function options
				— Rated output curre

Blank:2-wire input for standard model

Applications

LED street lighting

LED harbor lighting

• LED greenhouse lighting

Type "HL" for use in Class I, Division 2

hazardous (Classified) location.

LED bay lighting

• LED flood lighting

otions U3Y:3-wire input for standard model

- ated output current (700/1050/1400/1750/2100mA)
- Output wattage
- Series name

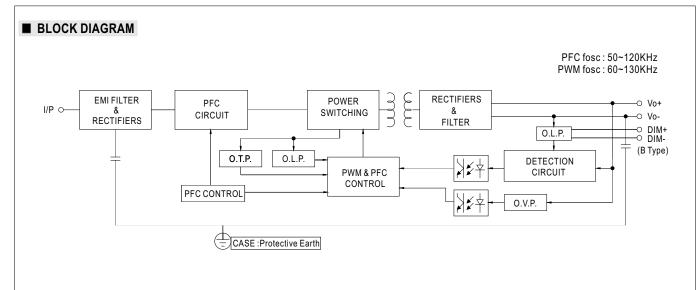
Туре	IP Level	Function	Note
Blank	IP67	lo fixed.	In Stock
A	IP65	lo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal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



SPECIFICATION

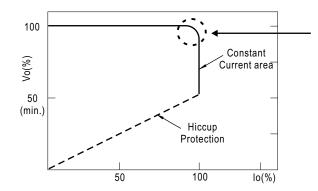
MODEL		ELG-200-C700	ELG-200-C1050	ELG-200-C1400	ELG-200-C1750	ELG-200-C2100			
	RATED CURRENT	700mA	1050mA	1400mA	1750mA	2100mA			
		200VAC ~ 305VAC							
		200.2W	199.5W	198.8W	199.5W	201.6W			
	RATED POWER	100VAC ~ 180VAC	1	1	1	<u> </u>			
		150.5W	150.15W	149.8W	150.5W	151.2W			
			95 ~ 190V	71 ~ 142V	57 ~ 114V	48~96V			
	CONSTANT CURRENT REGION Note.2								
	OPEN CIRCUIT VOLTAGE(max.)		200V	160V	120V	105V			
OUTPUT	CURRENT ADJ. RANGE	-	ype only (via built-in po	itentiometer)					
	CORRENT ADD. RANGE	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA	875 ~ 1750mA	1050 ~ 2100mA			
	CURRENT RIPPLE	5.0% max. @rated cu	irrent						
	CURRENT TOLERANCE	±5.0%							
	SET UP TIME Note.4	800ms/115VAC, 500ms/230VAC							
	VOLTAGE RANGE Note.3	100 ~ 305VAC 142 ~ 431VDC							
		(Please refer to "STATIC CHARACTERISTIC" section) 47 ~ 63Hz							
	FREQUENCY RANGE								
	POWER FACTOR (Typ.)	$\label{eq:PF} PF \geqq 0.97/115 \text{VAC}, PF \geqq 0.95/230 \text{VAC}, PF \geqq 0.92/277 \text{VAC} @ \text{full load} \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) \\ \end{aligned}$							
INPUT	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧50%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)							
	EFFICIENCY (Typ.)	93%	93%	92%	92%	92%			
	AC CURRENT (Typ.)	1.8A / 115VAC 1.0	A/230VAC 1.0A/27	7VAC					
	INRUSH CURRENT(Typ.)	COLD START 65A(tw	idth=680µs measured/	at 50% lpeak)/230VAC	; Per NEMA 410				
	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		rs automatically after fa		d				
		315~370V	205~250V	160~180V	125 ~ 150V	105 ~ 130V			
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 ~ +85°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)							
	MAX. CASE TEMP.	Tcase=+85℃							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
INVIRONMENT	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							
		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							
	SAFETY STANDARDS	independent, BS EN/EN62384;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 I/P-FG:2.0KVAC O/P-FG:1.5KVAC					oniy				
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC							
	ISOLATION RESISTANCE		-FG:100M Ohms / 500						
EMC EMISSIONCompliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 50%); BS EN/EN GB17743;EAC TP TC 020; KC KN15, KN61547									
	EMC IMMUNITY		EN61000-4-2,3,4,5,6,8,1 P TC 020; KC KN15 , KN		t industry level(surge imm	iunity:Line-Earth:6KV,			
	MTBF		ordia SR-332 (Bellcore)		MIL-HDBK-217F (25°C)			
	DIMENSION	244*71*37.5 mm (L*V	,			,			
OTHERS		1.22Kg; 12pcs /15.2k	,						
	PACKING 1. All parameters NOT special		-	d current and 25°C of an	bient temperature				
NOTE	 Please refer to "DRIVING M De-rating may be needed u Length of set up time is measing the second of the second second	ETHODS OF LED MOE nder low input voltages. asured at first cold start. a component that will be al equipment manufactur Il life expectancy of >50, statement on MEAN Wi erating of 3.5°C/1000m w JP water proof function Jpload/PDF/LED_EN.pdf	DULE" Please refer to "STATIC (Turning ON/OFF the pow operated in combination rers must re-qualify EMC 000 hours of operation wh ELL's website at http://ww /ith fanless models and o installation caution, pleas	CHARACTERISTIC" sect er supply may lead to int with final equipment. Sin Directive on the complete nen Tcase, particularly (cc w.meanwell.com f 5°C/1000m with fan mo e refer our user manual l	ions for details. crease of the set up time. ce EMC performance will e installation again.) point (or TMP, per DLC) dels for operating altitude pefore using.), is about 85° C or less. higher than 2000m(6500			





■ DRIVING METHODS OF LED MODULE

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

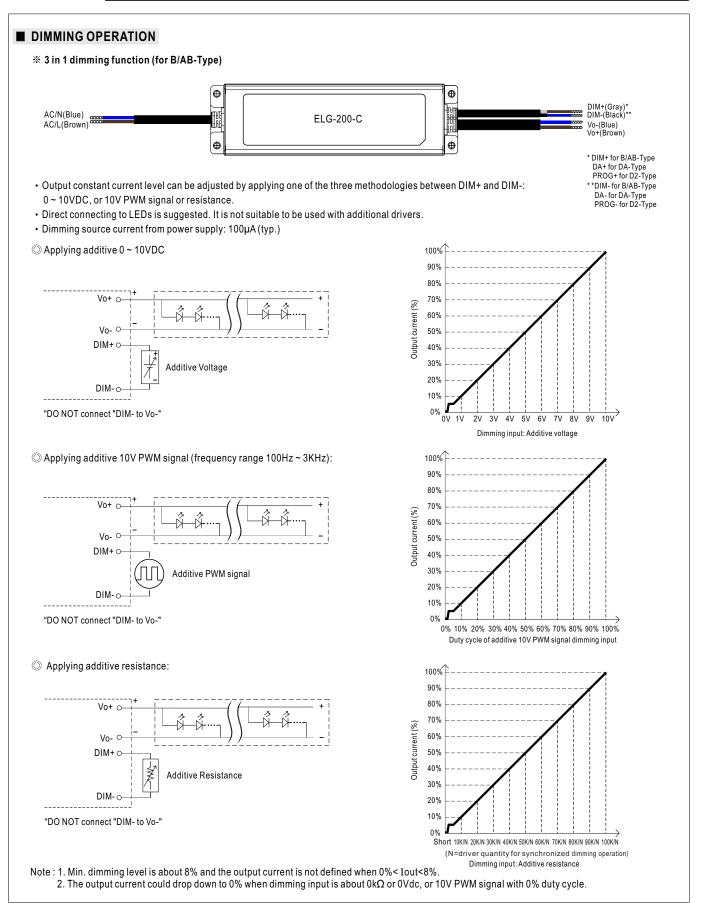


Typical output current normalized by rated current (%)

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.







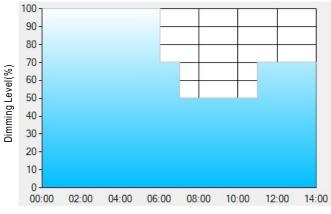
※ DALI Interface (primary side; for DA-Type)

- 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:

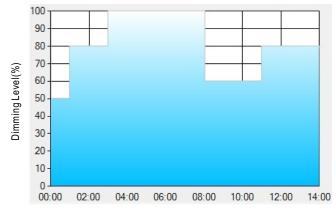
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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.

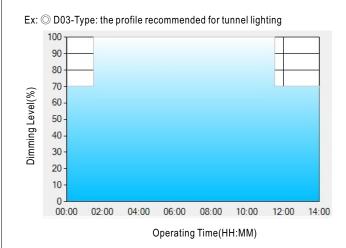
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

- [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		Т3
TIME** 01:30		11:00	
LEVEL**	70%	100%	70%

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

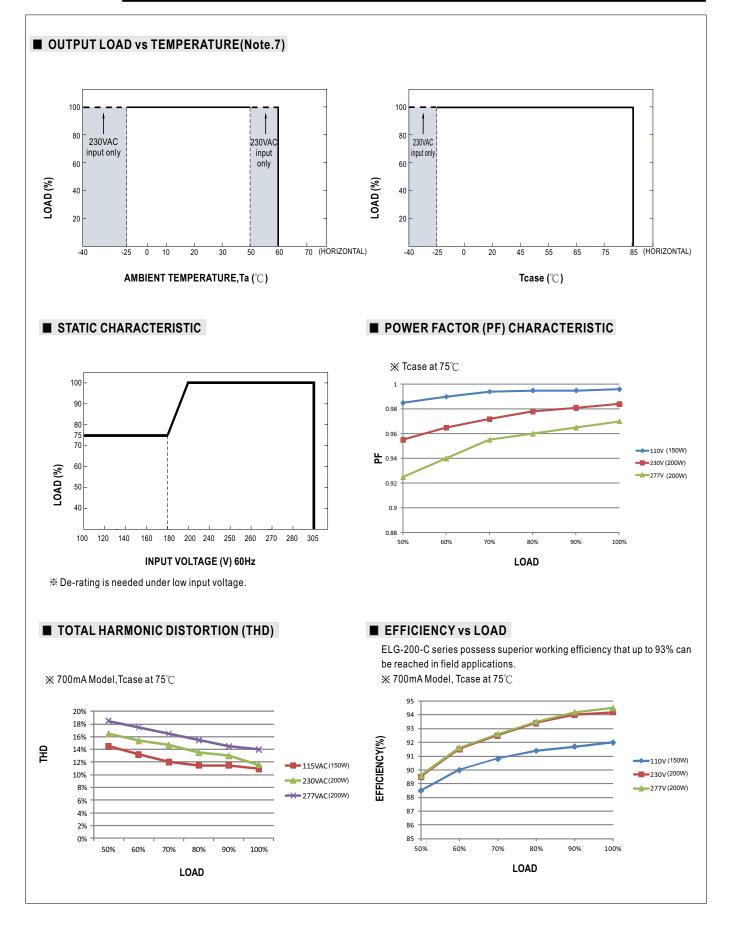
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

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

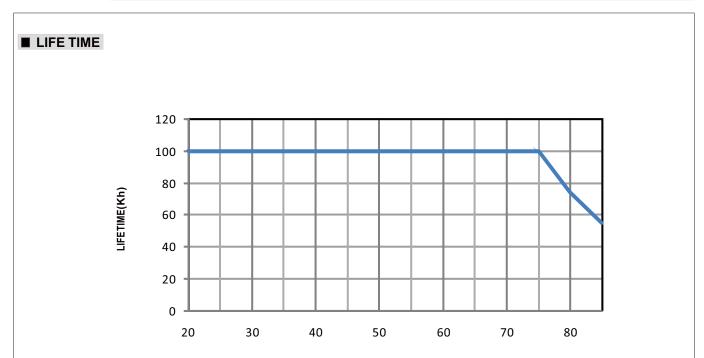
[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.

[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)



