









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

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.

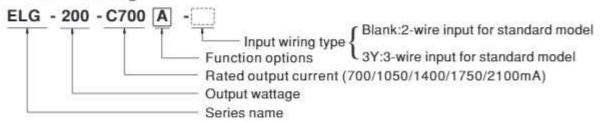
■ GTIN CODE

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

Description

ELG-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°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



Type	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



SPECIFICATION

MODEL		ELG-200-C700	ELG-200-C1050	ELG-200-C1400	ELG-200-C1750	ELG-200-C2100			
	RATED CURRENT	700mA	1050mA	1400mA	1750mA	2100mA			
7		200VAC ~ 305VAC			110000000000000000000000000000000000000				
	RATED POWER	200.2W	199.5W	198.8W	199.5W	201.6W			
	MAILUTONEN	100VAC ~ 180VAC	***	1/2	111	Title			
L		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			
1	OPEN CIRCUIT VOLTAGE(max.)	300V	200V	160V	120V	105V			
ОИТРИТ		Adjustable for A/AB-Type only (via built-in potentiometer)							
	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, 500	ms/230VAC						
	VOLTAGE RANGE Note.3	1755 7578WWE	142 ~ 431VDC ATIC CHARACTERISTIC	2" section)					
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load (Please refer to *POWER FACTOR (PF) CHARACTERISTIC* section)							
INPUT	TOTAL HARMONIC DISTORTION		50%/115VC,230VAC; (TAL HARMONIC DIST		n)				
368424W 5	EFFICIENCY (Typ.)	93%	93%	92%	92%	92%			
	AC CURRENT (Typ.)	1.8A / 115VAC 1.0A / 230VAC 1.0A/277VAC							
- 1	INRUSH CURRENT(Typ.)	COLD START 65A(twidth=680µs measured at 50% Ipeak)/230VAC; Per NEMA 410							
	MAX. No. of PSUs on 16A CIRCUIT BREAKER								
1	LEAKAGE CURRENT	<0.75mA/277VAC							
	NO LOAD / STANDBY	No load power consi	umption <0.5W for Blank	/A/Dx/D2-Type					
	POWER CONSUMPTION		umption <0.5W for B / A						
	SHORT CIRCUIT		ers automatically after fa		d				
i i		315~370V	205~250V	160 ~ 180V	125 ~ 150V	105~130V			
PROTECTION	OVER VOLTAGE	Shut down o/p volta	ge, re-power on to reco	ver	10000-1201				
	OVER TEMPERATURE		ge, re-power on to reco	ACCULT.					
	WORKING TEMP.		(Please refer to * OUTP		TURE* section)				
2	MAX. CASE TEMP.	Tcase=+85°C	,						
	WORKING HUMIDITY	20 ~ 95% RH non-co	ondensing						
NVIRONMENT	STORAGE TEMP., HUMIDITY								
200 (BA) (50)	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C	201						
	VIBRATION		in./1cycle, period for 72	lmin each along V V 7	avac				
	SAFETY STANDARDS	UL8750(type"HL"), C independent, BS EN	SA C22.2 No. 250.13-12 EN62384;GB19510.14,	BS EN/EN/AS/NZS 61: 3B19510.1;EAC TP TC	347-1,BS EN/EN/AS/NZ				
	D444 074410 4 0000		17-1,KC61347-2-13 app	And the second state of the second second second second	- 4				
SAFETY &	DALISTANDARDS	Compliance to IEC62386-101,102,(207 by request) for DA Type only							
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC							
	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; GB17625.1,							
	EMC EMISSION	GB17743;EACTPT	N/EN55015,BS EN/EN6 C 020; KC KN15 , KN61 /EN61000-4-2,3,4,5,6,8,1	547					
	EMC IMMUNITY		TP TC 020; KC KN15, KN			LING-LARGITORY,			
	MTBF	The state of the s	Telcordia SR-332 (Bello	STREET, STREET	MIL-HDBK-217F (25")	C)			
OTHERS	DIMENSION	244*71*37.5 mm (L*		The second second					
	PACKING	1.22Kg; 12pcs /15.2							
		v mentioned are measu	ated at 290VAC input rate	d current and 257° of am	ly mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.				

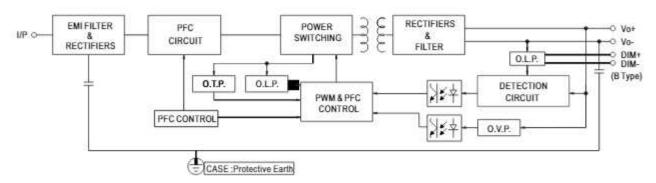
NOTE

- 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.
- 4. 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.
- 5. 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 Toase, particularly (€) point (or TMP, per DLC), is about 85℃ 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(6500ft).
- 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.
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



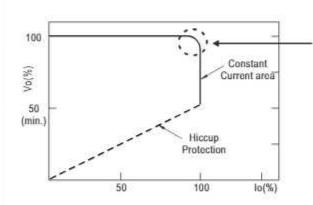
■ BLOCK DIAGRAM

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



■ DRIVING METHODS OF LED MODULE

※ 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.

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

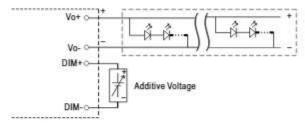
DA- for DA-Type PROG- for D2 Type



■ DIMMING OPERATION

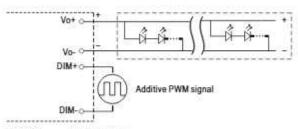


- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- . Dimming source current from power supply: 100µA (typ.)
- Applying additive 0 ~ 10VDC



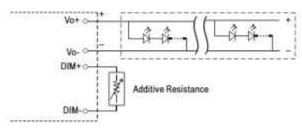
"DO NOT connect "DIM- to Vo-"

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

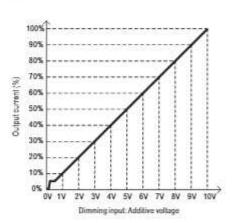


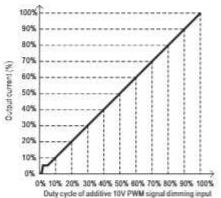
"DO NOT connect "DIM- to Vo-"

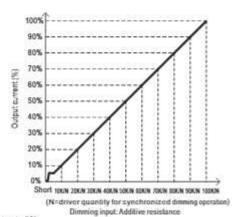
O Applying additive resistance:



"DO NOT connect "DIM- to Vo-"







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

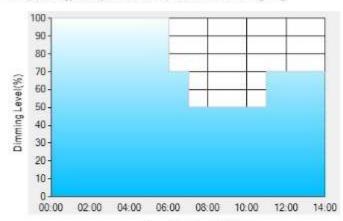


M DALI Interface (primary side; for DA-Type)

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

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: (i) D01-Type: the profile recommended for residential lighting



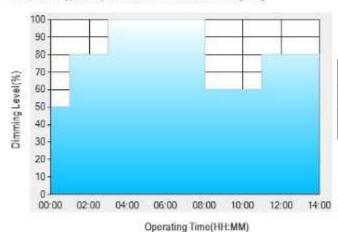
Set up for D01-Type in Smart timer dimming software program:

	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	753
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%

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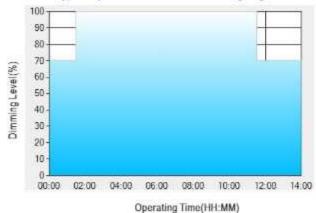
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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:

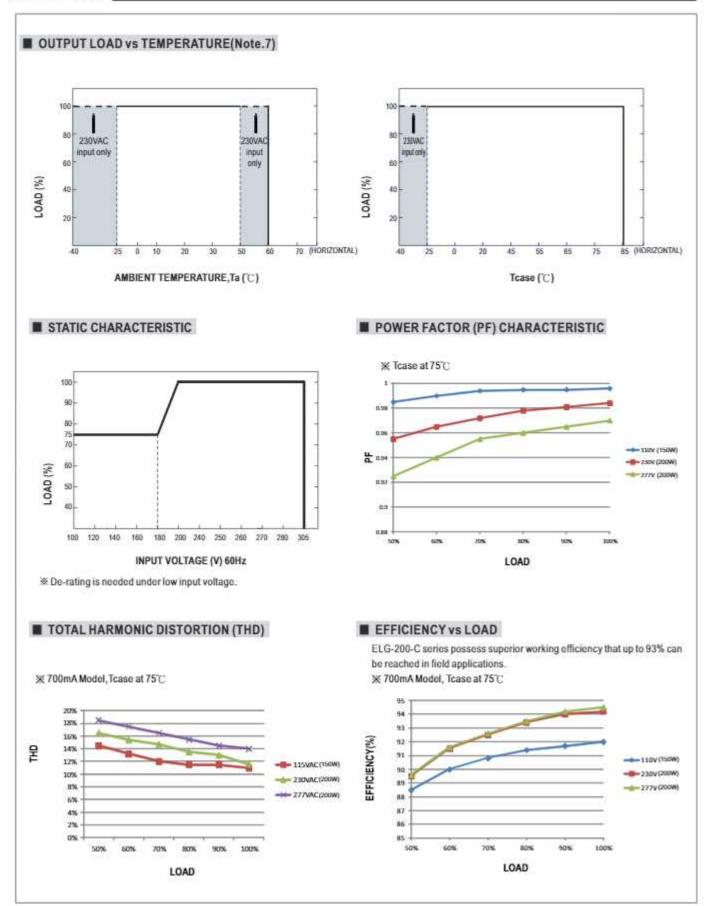
	T1	T2	Т3
TIME**	01:30	11:00	-
LEVEL**	70%	100%	70%

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.

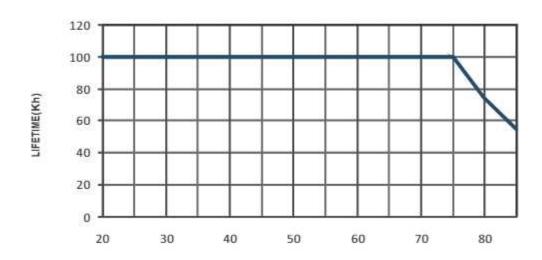
^{**:} TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.





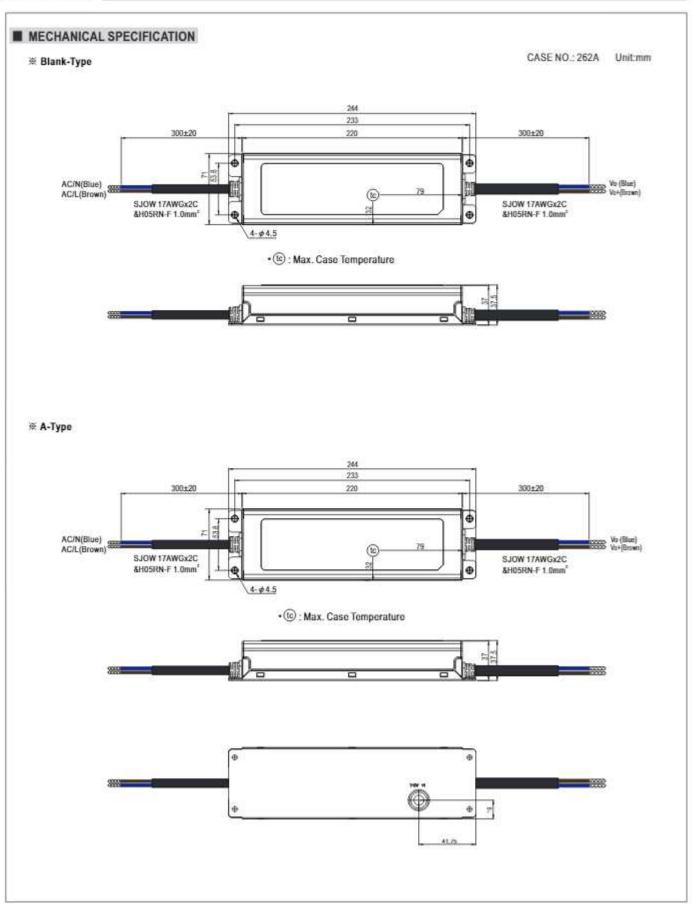


■ LIFE TIME

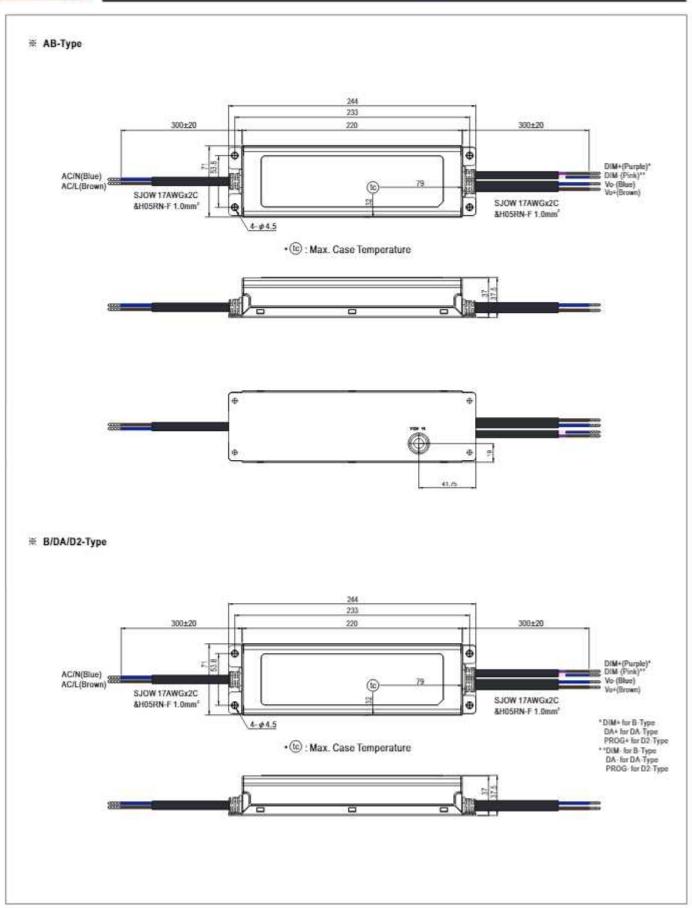


Tcase ('C)

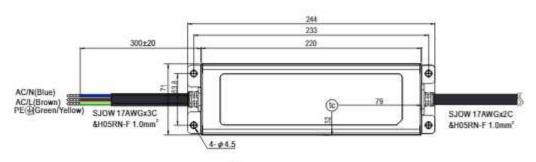












• 16 : Max. Case Temperature

- 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.

■ Installation Manual

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