





DALD M/ M (for DA-Type only

ELG-200-C700

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 $-40^{\circ}C \sim +85^{\circ}C$ 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 t
	Function options
	——— Bated output curre

- type Blank:2-wire input for standard model 3Y:3-wire input for
- ut 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					
	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	
			ype only (via built-in po		1	1	
OUTPUT	CURRENT ADJ. RANGE	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA	875 ~ 1750mA	1050 ~ 2100mA	
	CURRENT RIPPLE	5.0% max. @rated cu		100 140011/4	010 110011/4	1000 2100117	
			inent				
	CURRENT TOLERANCE						
	SET UP TIME Note.4	800ms/115VAC, 500n	ns/230VAC				
	VOLTAGE RANGE Note.3		42 ~ 431VDC TIC CHARACTERISTIC	C" section)			
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)			0.92/277VAC@full load RACTERISTIC" section)		
INPUT	TOTAL HARMONIC DISTORTION		0%/115VC,230VAC; (AL HARMONIC DIST	@load≧75%/277VAC) ORTION(THD)" sectior	n)		
	EFFICIENCY (Typ.)	93%	93%	92%	92%	92%	
	AC CURRENT (Typ.)	1.8A / 115VAC 1.0	A/230VAC 1.0A/27	7VAC			
	INRUSH CURRENT(Typ.)				Per NEMA 410		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	No. of PSUs on 16A					
		<0.75mA / 2771/AC					
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	NO LOAD / STANDBY POWER CONSUMPTION		mption <0.5W for Blank Imption <0.5W for B / A	• •			
	SHORT CIRCUIT	Hiccup mode, recove	rs automatically after fa	ault condition is remove	b		
ROTECTION	OVER VOLTAGE	315 ~ 370V Shut down o/p voltag	205 ~ 250V ie, re-power on to reco	160 ~ 180V	125 ~ 150V	105 ~ 130V	
	OVER TEMPERATURE		e, re-power on to reco				
	WORKING TEMP.			UT LOAD vs TEMPERA	TUPE" soction)		
	MAX. CASE TEMP.	Tcase=+85℃					
	WORKING HUMIDITY	20 ~ 95% RH non-cor	•				
INVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 959					
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C))				
	VIBRATION	10 ~ 500Hz, 5G 12mi	n./1cycle, period for 72	2min. 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;EAC TP TC 004;BIS IS15885(for 700A only); IP65 or IP67;KC61347-1,KC61347-2-13 approved					
	DALI STANDARDS			request) for DA Type of	only		
SAFETY &			I/P-FG:2.0KVAC C		,		
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; GB/T 17743,					
	EMC EMISSION	GB17625.1; EAC TP TC 020; KC KN15, KN61547 Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level(surge immunity:Line-Earth:6KV,					
	EMC IMMUNITY		P TC 020; KC KN15, KN			. ,	
	MTBF	2728.6K hrs min.	Felcordia SR-332 (Bello	core) ;217.6K hrs 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 special Please refer to "DRIVING M De-rating may be needed ui Length of set up time is measing the driver is considered as complete installation, the fin (as available on https://www. This series meets the typica Please refer to the warranty The ambient temperature of 49. For any application note and https://www.meanwell.com/l To fulfill requirements of the connected to the mains. 	ETHODS OF LED MOD nder low input voltages. I asured at first cold start a component that will be al equipment manufactur meanwell.com//Upload/F I life expectancy of >50,0 statement on MEAN WE erating of 3.5°C/1000m w J IP water proof function Jpload/PDF/LED_EN.pdf	DULE". Please refer to "STATIC 0 operated in combination ers must re-qualify EMC PDF/EMI_statement_en.p 000 hours of operation wi LL's website at http://ww ith fanless models and o installation caution, pleas	CHARACTERISTIC" section with final equipment. Since Directive on the complete odf) nen Tcase, particularly (tc) w.meanwell.com f 5°C/1000m with fan moor se refer our user manual b	ons for details. rease of the set up time. se EMC performance will installation again. point (or TMP, per DLC), lels for operating altitude efore using.	is about 85°C or less. higher than 2000m(650	





■ 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.

 $Ex: \bigcirc D02$ -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.



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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.







ELG-200-C series





Tcase (°C)











