



IP65 IP67 (PC)









- · 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;
 Auxiliary DC output
- · Typical lifetime>50000 hours
- · 5 years warranty

Applications

- · LED street lighting
- · LED harbor lighting
- · LED bay lighting
- · LED greenhouse lighting

CBCEK

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

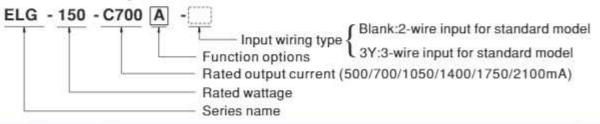
GTIN CODE

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

Description

ELG-150-C series is a 150W LED AC/DC driver featuring the constant current mode and high voltage output. ELG-150-C operates from 100~360VAC and offers models with different rated current ranging between 500mA and 2100mA. Thanks to the high efficiency up to 92%, 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-150-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)	
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



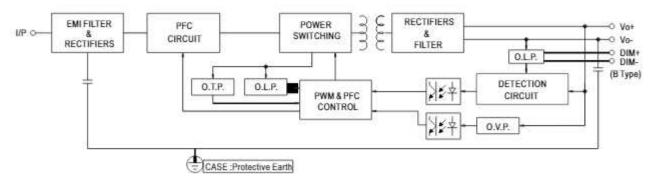
SPECIFICATION

MODEL		ELG-150-C500 [ELG-150-C700	ELG-150-C1050	ELG-150-C1400	ELG-150-C1750	ELG-150-C2100	
	RATED CURRENT	500mA	700mA	1050mA	1400mA	1750mA	2100mA	
		100VAC ~ 180VAC						
	DATES	105W	105W	105W	105W	105W	105W	
	RATED POWER	200VAC ~ 305VAC						
	TONER	150W	149.8W	150.15W	149.8W	150.5W	151.2W	
3	CONSTANT CURRENT REGION Mote 2	150 ~ 300V	107 ~ 214V	72 ~ 143V	54 ~ 107V	43 ~ 86V	36~72V	
UTPUT	OPEN CIRCUIT VOLTAGE(max.)	315V	225V	151V	115V	94V	80V	
		Adjustable for A/A	B-Type only (via bui	ilt-in potentiometer))		***	
	CURRENT ADJ. RANGE	250 ~ 500mA	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA	875 ~ 1750mA	1050 - 2100mA	
	CURRENT RIPPLE	5.0% max. @rated	current					
i i	CURRENT TOLERANCE	±5.0%						
	SET UP TIME Note.4	1600ms/115VAC	500ms/230VAC	8				
	VOLTAGE RANGE Note 3	100 ~ 305VAC			24Hrs; 360VAC for	1Hr		
	TOURISE ISSUED	(Please refer to *S	TATIC CHARACTE	RISTIC* section)				
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)		, PF≥ 0.95/230VAC OWER FACTOR (PF					
NPUT	TOTAL HARMONIC DISTORTION		i≧50%/115VC; @lc		; @load≧75%/277V ID)" section)	AC)		
	EFFICIENCY (Typ.)	92%	92%	92%	91%	91%	91%	
- 1	AC CURRENT (Typ.)	1.7A / 115VAC	0.9A / 230VAC	0.7A/277VAC				
9	INRUSH CURRENT(Typ.)				k)/230VAC; Per NEN	AA 410		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER				er of type C) at 230V			
	LEAKAGE CURRENT	<0.75mA/277VA	2			****		
	NO LOAD / STANDBY POWER CONSUMPTION	[12] [12] [12] [12] [12] [12] [12] [12]	nsumption <0.5W fo					
	SHORT CIRCUIT	Hiccup mode, reco	overs automatically	after fault condition	is removed			
- 6		320 ~ 360V	230 ~ 265V	155~180V	128~150V	96 ~ 106V	82 ~ 92V	
OTECTION	OVER VOLTAGE		tage, re-power on		1.120		102.021	
	OVER TEMPERATURE		tage, re-power on t					
	WORKING TEMP.		- The second second		TEMPERATURE' se	ection)		
	MAX. CASE TEMP.	Tcase=+90'('	, i 10000 10101 10	0011 01 2012 12	TEM EIGHTONE G	Journ's Committee of the Committee of th		
		20 ~ 95% RH non-	condensing					
	WORKING HUMIDITY STORAGE TEMP., HUMIDITY	-40 - +80°C, 10 -						
	TEMP. COEFFICIENT	±0.03%/℃ (0 = 60	THE RESERVE THE PERSON NAMED IN COLUMN	f 70 1 1 1				
_	VIBRATION		2min./1cycle, period					
	SAFETY STANDARDS	independent, BS E		10.1,GB19510.14,E	NG BEOMET 다양 및 이번 10명 (1972년 10명 1985년 1	NAS/NZS 61347-2-13 IS15885(for 700A, 10		
	DALISTANDARDS		C62386-101,102,(r DA Type only			
AFETY &	WITHSTAND VOLTAGE	T	C I/P-FG:2.0KVA					
MC	ISOLATION RESISTANCE		0/P-FG:100M Ohm					
	EMC EMISSION	Compliance to BS		VEN61000-3-2 Clas		BS EN/EN61000-3-	3; GB17743 ,	
	EMC IMMUNITY	Compliance to BS	market and an extensive an extensive and the second about the second	,5,6,8,11; BS EN/EI	N61547, light industry	y level (surge immuni	ty Line-Earth 6KV,	
	MTBF	3102.4K hrs min. Telcordia SR-332 (Bellcore) ;308.5K hrs min. MIL-HDBK-217F (25°C)						
THERS	DIMENSION	219*63*35.5 mm (L*W*H)						
	PACKING	0.95Kg; 16pcs / 16	3.0kg / 0.77CUFT					
ОТЕ	All parameters NOT specially r Please refer to "DRIVING MET under rated power delivery. De-rating may be needed under to be reded under to be reded under to be reded under the research to the deliver is considered as a complete installation, the final r This series meets the typical lift. Please refer to the warranty sta. The ambient temperature dera 9. For any application note and If https://www.mearwelt.com/Upi 10. To fulfil requirements of the late.	HODS OF LED MOD er low input voltages. I red at first cold start. I component that will be equipment manufacture e expectancy of >50,0 dement on MEAN WE fing of 3.5°C/1000m w " water proof function i cod/PDF/LED EN.pdf	ULE*, For DA-Type, Co Pease refer to *STATIC furning ON/OFF the dri- operated in combination rest must re-quality EMO 00 hours of operation via LL's website at http://w th fantess models and installation caution, ples	onstant Current region CHARACTERISTIC* Ever may lead to increa in with final equipment. Directive on the com- when Toase, particular www.meanwell.com. of \$\subseteq 17000m with tan use refer our user man	is 60%-100% of maxin sections for details, see of the set up time. Since EMC performan plete installation again, by (b) point (or TMP, per models for operating a unal before using.	num voltage ce will be affected by the r DLC), is about 75°C o dilude higher than 2000	r less. Im(6500ft).	



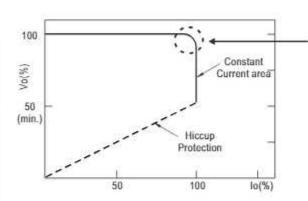
■ BLOCK DIAGRAM

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 (%)

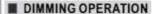
O This characteristic applies to Blank/A/B/AB/DX/D2-Type, For DA-Type, the Constant Current area is 60%-100% Vo. In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

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

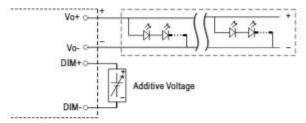
*DIM-for B/AB-Type DA-for DA-Type PROG-for D2-Type





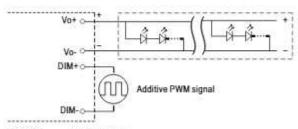


- # 3 in 1 dimming function (for B/AB-Type)
- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 10VDC, or 10V PWM signal or resistance.
- . Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- @ Applying additive 0 ~ 10VDC



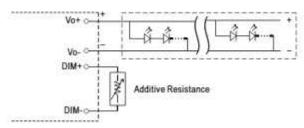
"DO NOT connect "DIM- to Vo-"

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

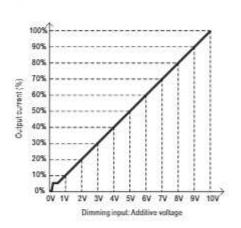


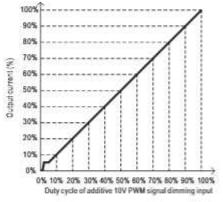
"DO NOT connect "DIM- to Vo-"

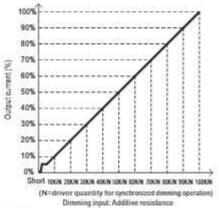
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"







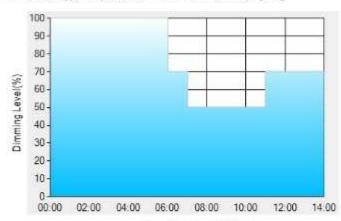
Note: 1, Min. dimming level is about 8% and the output current is not defined when 0%< lout<8%.

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

- · 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: @ D01-Type: the profile recommended for residential lighting



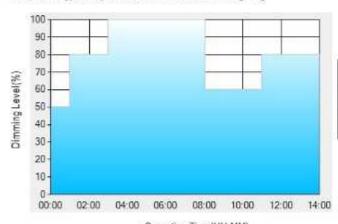
Set up for D01-Type in Smart timer dimming software program:

	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	- 78 8
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)

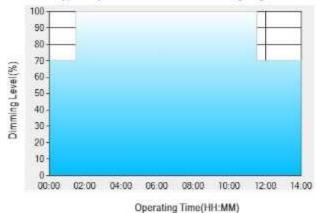
- **: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

 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.



ELG-150-C series

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



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

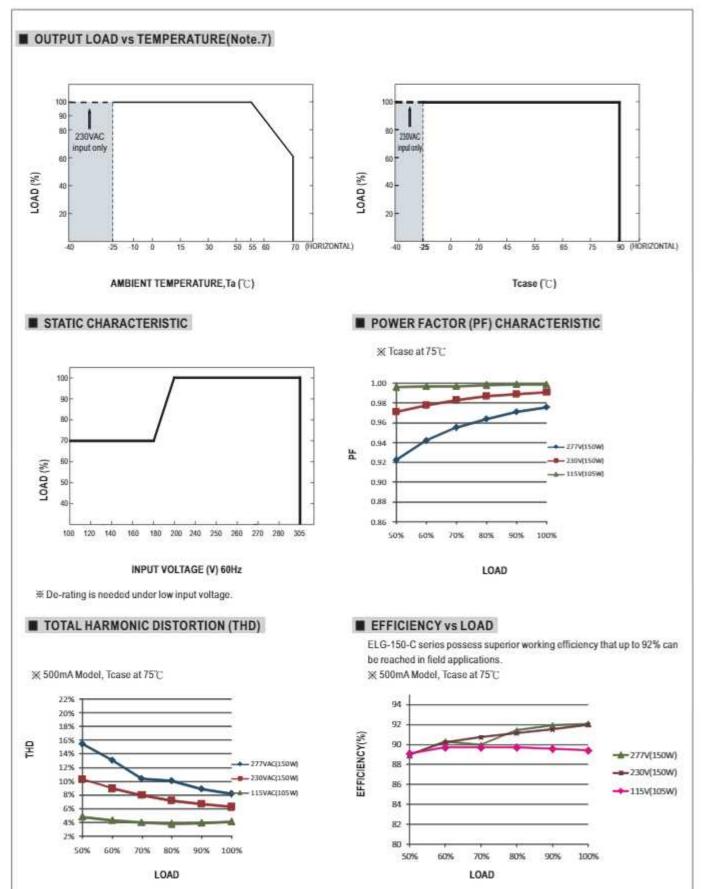
	T1	T2	Т3
TIME**	01:30	11:00	
LEVEL**	70%	100%	70%

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.

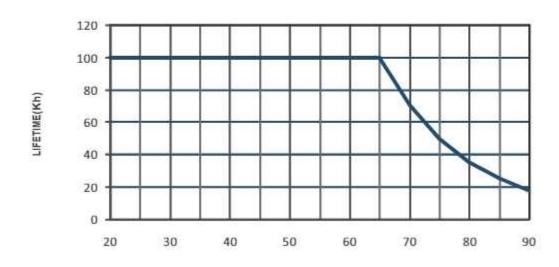
^{**:} TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.





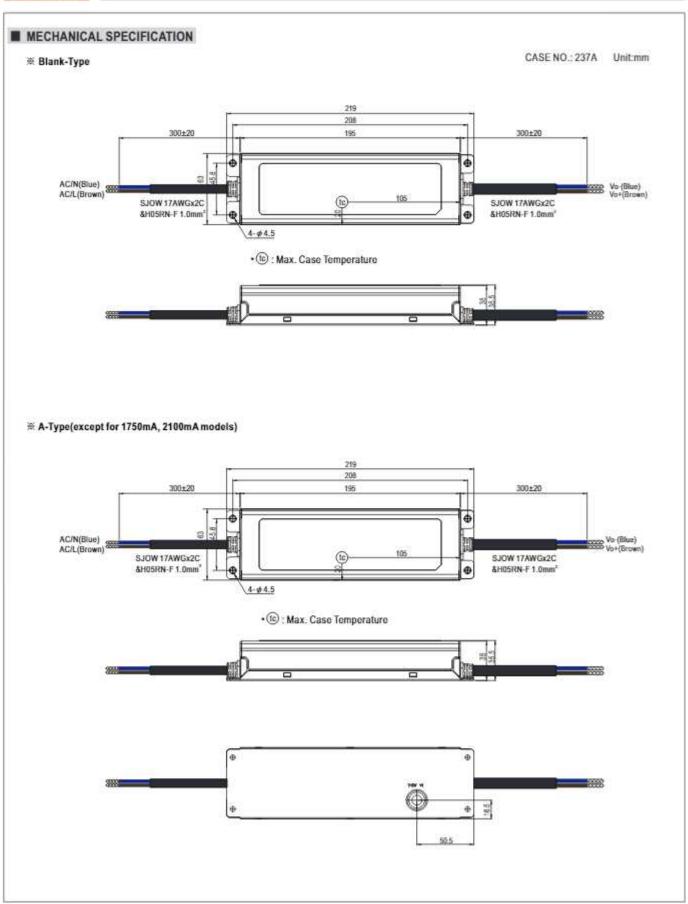




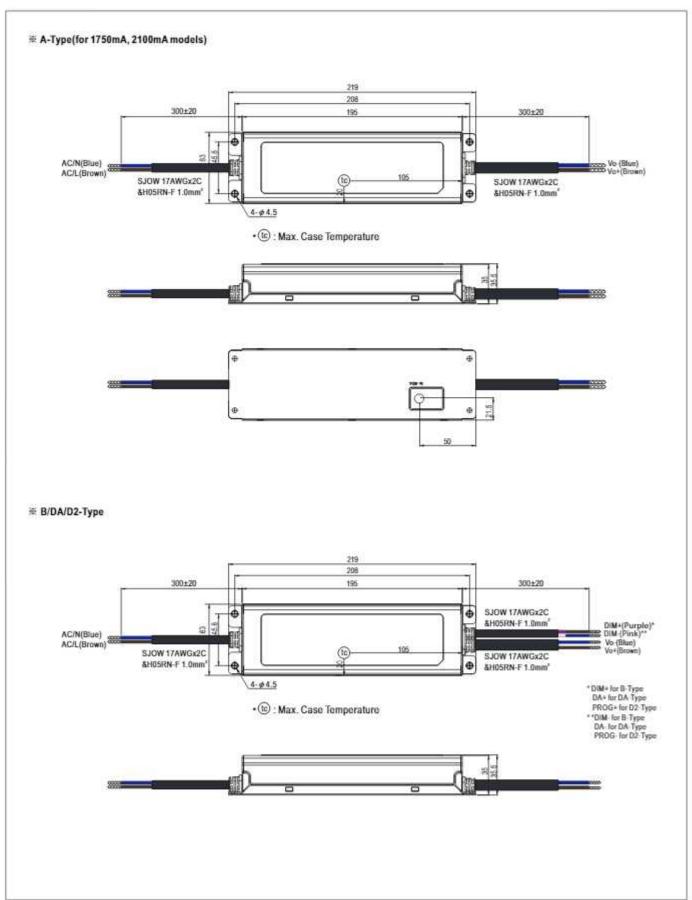


Tcase ("C)

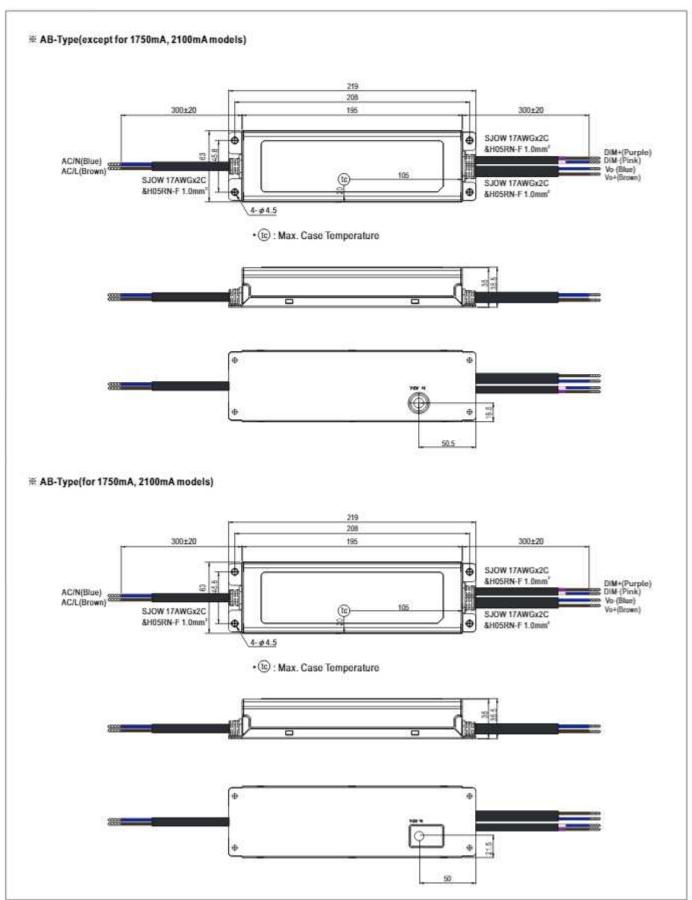




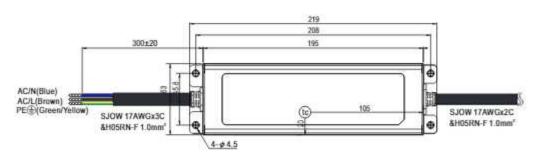








3Y Model (3-wire input)



• 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