



IP65 IP67 (P)

Features

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- Constant Current mode output
- · Metal housing design with functional Ground

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- 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

Description

Applications

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

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

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 $-+85^{\circ}$ 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-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



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
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
BE	IP67	3 in 1 dimming function and Auxiliary DC output	By request



SPECIFICATION

SPECIFIC	ATION		ELG-150-C500	ELG-150-C700	EL C-150-C1050	ELG-150-C1400	ELG-150-C1750	ELG-150-C2100	
-		DENT							
	RATED CUR		500mA	700mA	1050mA	1400mA	1750mA	2100mA	
		(For All the Turner)	100VAC ~ 180VAC		40514	40514	40514	40514	
	RATED	(For All the Types)	105W	105W	105W	105W	105W	105W	
	POWER		200VAC ~ 305VAC		450 4514	4.40.004	450 514	454 004	
		(Except for BE Type)		149.8W	150.15W	149.8W	150.5W	151.2W	
	(For BE Type only)			134.4W	134.4W	133W	133W	134.4W	
+	CONSTANT CURRENT REGION Note.2			107 ~ 214V	72 ~ 143V	54 ~ 107V	43 ~ 86V	36 ~ 72V	
	CONSTANT CURRENT REGION Note.2 (For BE Type only)		150 ~ 270V	107 ~ 192V	72 ~ 128V	54 ~ 95V	43 ~ 76V	36 ~ 64V	
	OPEN CIRCUIT VOLTAGE(max.)		315V	225V	151V	115V	94V	80V	
ουτρυτ	CURRENT ADJ. RANGE		Adjustable for A-Ty 250 ~ 500mA	vpe only (via built-in 350 ~ 700mA	potentiometer) 525 ~ 1050mA	700 ~ 1400mA	875 ~ 1750mA	1050 ~ 2100mA	
			5.0% max. @rated	current	1	1		1	
	CURRENT TO		±5.0%						
	AUXILIARY								
			Nominal 15V(deviation 11.5~15.5V)@0.3A for BE-Type only						
	SET UP TIME	Note.4	1600ms/115VAC	500ms/230VAC					
	VOLTAGE RA	ANGE Note.3	100 ~ 305VAC 142 ~ 431VDC continue,320VAC for 24Hrs; 360VAC for 1Hr (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY	RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)		$PF \ge 0.97/115VAC$, $PF \ge 0.95/230VAC$, $PF \ge 0.92/277VAC$ @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
INPUT	TOTAL HARMON	NIC DISTORTION	THD<20%(@load≧50%/115VC; @load≧60%/230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
ĺ	EFFICIENCY	(Тур.)	92%	92%	92%	91%	91%	91%	
	EFFICIENCY (Ty	p.)(for BE Type only)	90%	90%	90%	89%	89%	89%	
İ	AC CURRENT (Typ.)		1.7A / 115VAC	0.9A / 230VAC	0.7A/277VAC	l	1		
			COLD START 65A(twidth=485µs measured at 50% Ipeak)/230VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER								
-	LEAKAGE CURRENT		<0.75mA / 277VAC						
	NO LOAD / S POWER CON		No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / DA-Type						
	SHORT CIRC		Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE		320 ~ 360V	230 ~ 265V	155 ~ 180V	128 ~ 150V	96~106V	82~92V	
ROTECTION			Shut down o/p voltage, re-power on to recover						
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	OVER TEMPI		Shut down o/p voltage, re-power on to recover						
	WORKING TI		Tcase=-40 ~ +90°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)						
-	MAX. CASE		Tcase=+90°C						
	WORKING H		20 ~ 95% RH non-condensing						
INVIRONMENT	STORAGE TEI	MP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH						
	TEMP. COEF	FICIENT	±0.03%/°C (0~60°C)						
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
	SAFETY STAN	NDARDS	UL8750(type"HL")(except for BE-type), CSA C22.2 No. 250.13-12;EN/AS/NZS 61347-1,EN/AS/NZS 61347-2-13 independent EN62384; GB19510.1,GB19510.14,EAC TP TC 004,BIS IS15885(for 700A,1050A,700DA only),IP65 or IP67 approved						
İ	DALI STANDA	ARDS	Compliance to IEC62386-101,102,207 for DA-Type only						
	WITHSTAND		I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC						
SAFEITO		RESISTANCE							
	EMC EMISSIO		Compliance to EN55015,EN61000-3-2 Class C (@load ≥60%) ; EN61000-3-3; GB17743, GB17625.1,EAC TP						
ł	EMC IMMUN		Compliance to ENS100-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV						
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-	MTBF				Belicore) 308.	oknrs min. MIL-ł	HDBK-217F (25℃)		
	DIMENSION		219*63*35.5 mm (L*W*H)						
NOTE	 Please referrence under rated De-rating m Length of s The driver in 	r to "DRIVING M I power delivery hay be needed u et up time is me s considered as	0.95Kg; 16pcs / 16.0kg / 0.77CUFT NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage wer delivery. be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. p time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. nsidered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the						
	 6. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75°C or less. 7. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 								





■ 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 (%)

© This characteristic applies to Blank/A/B/DX/D2/BE-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.







※ 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.





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.



105~150W Constant Current Mode LED Driver





105~150W Constant Current Mode LED Driver

ELG-150-C series

LIFE TIME



Tcase ($^{\circ}$ C)











105~150W Constant Current Mode LED Driver

