



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.

Description

ELG-75-C series is a 75W LED AC/DC driver featuring the constant current mode and high voltage output. ELG-75-C operates from 100~305VAC and offers models with different rated current ranging between 350mA and 1400mA. Thanks to the high efficiency up to 91%, 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-75-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 - 75 - C500 A

Input wiring type

Function options U3Y:3-wire input for standard model

Rated output current (350/500/700/1050/1400mA)

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

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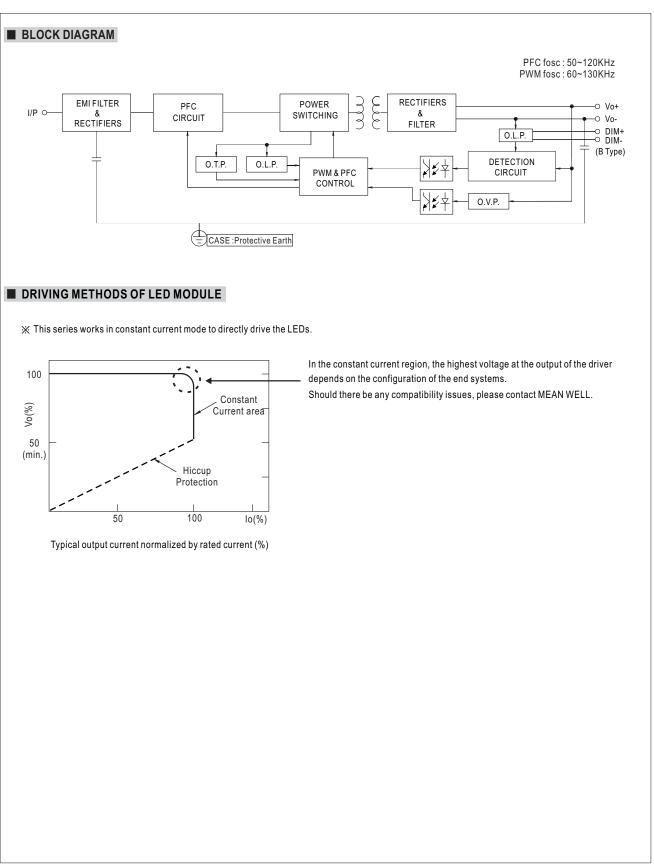


SPECIFICATION

MODEL		ELG-75-C350	ELG-75-C500	ELG-75-C700	ELG-75-C1050	ELG-75-C1400		
	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA		
		200VAC ~ 305VAC						
OUTPUT		74.9W	75W	74.9W	74.55W	75.6W		
	RATED POWER Note.5	100VAC ~ 180VAC		1	-			
		59.85W	60W	59.5W	59.85W	60.2W		
	CONSTANT CURRENT REGION Note.2	107 - 2141/	75~150V	53 ~ 107V	35~71V	27 ~ 54V		
			158V	114V	78V	61V		
	OPEN CIRCUIT VOLTAGE(max.)		ype only (via built-in p		100	010		
	CURRENT ADJ. RANGE	-		,	505 4050mA	700 4400 4		
		175 ~ 350mA	250 ~ 500mA	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA		
	CURRENT RIPPLE	5.0% max. @rated cu	irrent					
	CURRENT TOLERANCE	±5.0%						
	SET UP TIME Note.4	500ms/115VAC,230VAC						
	VOLTAGE RANGE Note.3	100 ~ 305VAC 142 ~ 431VDC (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)						
	TOTAL HARMONIC DISTORTION	THD<20%(@load≧50%/115VC,230VAC; @load≧75%/277VAC)						
NPUT		•		ORTION(THD)" section	,			
	EFFICIENCY (Typ.)	91%	91%	91%	90%	90%		
	AC CURRENT (Typ.)	0.7A/115VAC 0.4	5A/230VAC 0.38A	/277VAC				
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=350µs measured at 50% Ipeak)/230VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	5 units (circuit breaker of type B) / 8 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	Hiccup mode, recove	rs automatically after f	ault condition is remove	ed			
		225~260V	160~190V	115~140V	80~100V	64 ~ 79V		
ROTECTION	OVER VOLTAGE	Shut down o/p voltag	je, re-power on to rec	over	1	l.		
	OVER TEMPERATURE	Shut down o/p voltag	e, re-power on to rec	over				
	WORKING TEMP.	Tcase=-40 ~ +85°C (I	Please refer to " OUTF	UT LOAD vs TEMPER	ATURE" section)			
	MAX. CASE TEMP.	Tcase=+85°C			· ·			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
VIRONMENT	STORAGE TEMP., HUMIDITY							
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C						
			·		7			
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12;EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independent, EN6238- EAC TP TC 004;BIS IS15885(for 700A/700B/700DA/1050A only);IP65 or IP67; GB19510.1, GB19510.14;						
	DALI STANDARDS	KC61347-1,KC61347-2-13 approved Compliance to IEC62386-101,102,(207 by request) for DA Type only						
	WITHSTAND VOLTAGE							
SAFETY &								
EMC	ISOLATION RESISTANCE EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 50%); EN61000-3-3; GB17743, GB17625.1; EAC_TPTC 020; KC_KM15_KN61547						
	EMC IMMUNITY	EAC TP TC 020; KC KN15, KN61547 Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level(surge immunity:Line-Earth:6KV,Line-Line:4KV); EAC TP TC 020; KC KN15, KN61547						
	MTBF	EAC TP TC 020; KC KN15, KN61547 1171.4K hrs min. Telcordia SR-332 (Bellcore) 305Khrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	1171.44 fills fillit. Telebrata SK-352 (Belicole) 305 Kills fillit. Milt-HDBK-217F (25 C)						
	PACKING	0.8Kg;16pcs/13.4Kg/0.6	,					
NOTE	 Please refer to "DRIVING M De-rating may be needed u Length of set up time is me The driver is considered as complete installation, the fir This series meets the typica Please refer to the warranty The ambient temperature de For any application note an https://www.meanwell.com/ 	ally mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. METHODS OF LED MODULE". under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. easured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. Is a component that will be operated in combination with final equipment. Since EMC performance will be affected by the nal equipment manufacturers must re-qualify EMC Directive on the complete installation again. High expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 80°C or less. y statement on MEAN WELL's website at http://www.meanwell.com erating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft nd IP water proof function installation caution, please refer our user manual before using.						

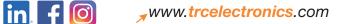




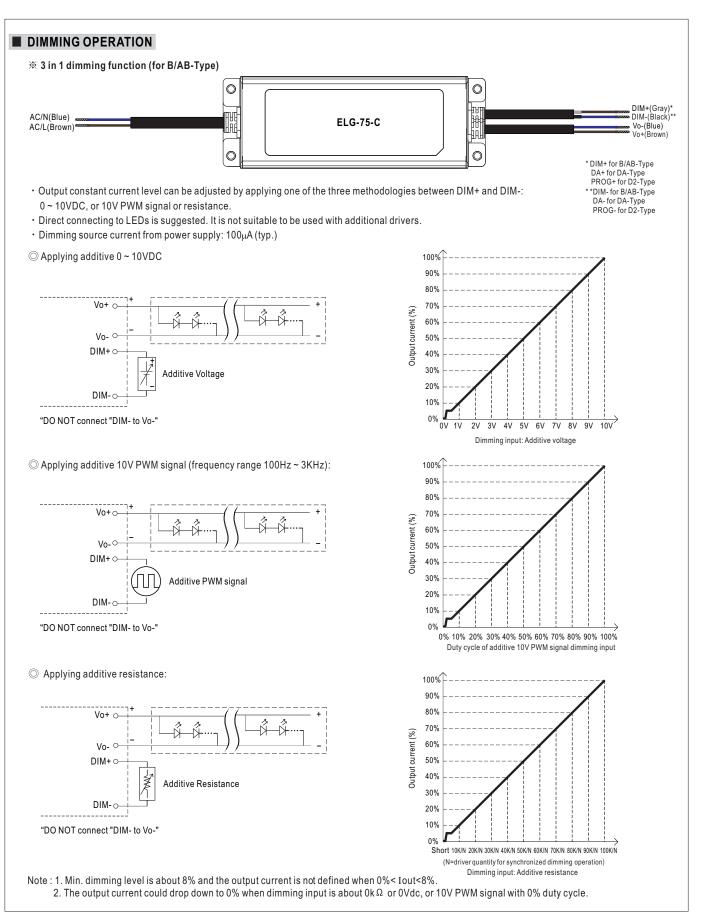


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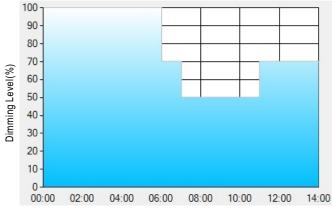
※ DALI Interface (primary side; for DA-Type)

- 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.





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

	T1	T2	Т3	T4
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

(%) 100 90 90 80 70 60 50 40 30 20 10 00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 Ocenties Time(IIII/MM)

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.

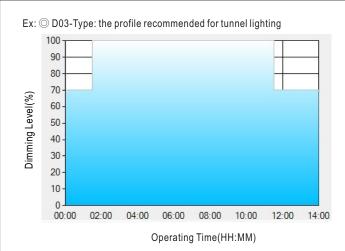
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Set up for D03-Type in Smart timer dimming software program:

\sum	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.

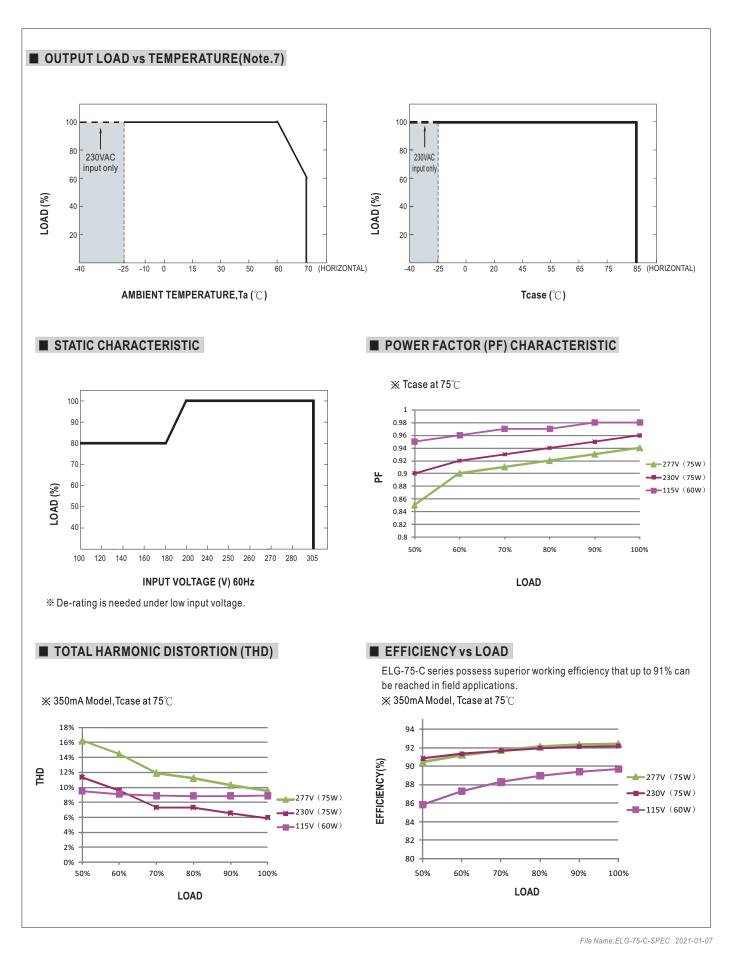
[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.

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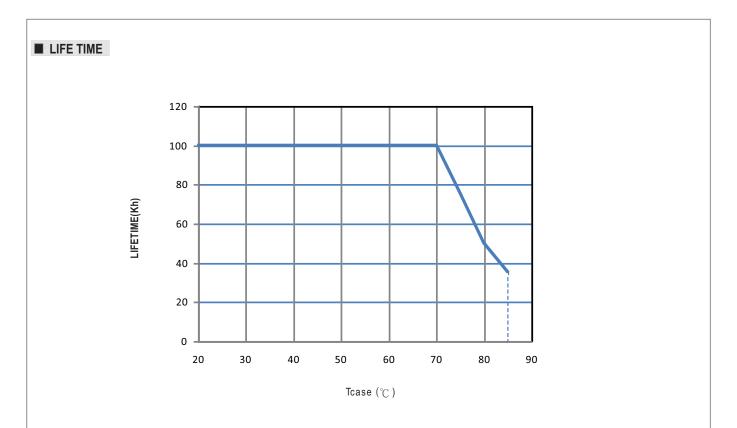






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