





S 15885(Part 2/Sec13) R-41027766

Applications

LED street lighting

LED harbor lighting

LED greenhouse lighting

Type "HL" for use in Class I, Division 2

hazardous (Classified) location.

LED bay lighting

• LED flood lighting

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

Α

- Function options: output adjustable via potentiometer; 3 in 1 dimming (dim-to-off); Smart timer dimming; DALI
- Typical lifetime>50000 hours
- 5 years warranty

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 $-40^{\circ}C + 85^{\circ}C$ 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-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
4	-	-		-

Blank:2-wire input for standard model

- Function options
- 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

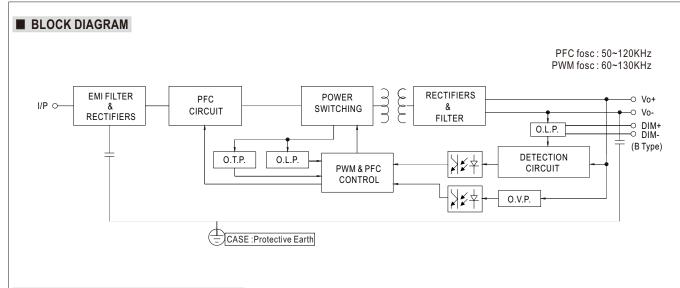


SPECIFICATION

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					
	RATED POWER Note.5	74.9W	75W	74.9W	74.55W	75.6W	
		100VAC ~ 180VAC		1		1	
		59.85W	60W	59.5W	59.85W	60.2W	
	CONSTANT CURRENT REGION Note.2	107~21/1/	75 ~ 150V	53 ~ 107V	35 ~ 71V	27 ~ 54V	
OUTPUT	OPEN CIRCUIT VOLTAGE(max.)		158V	114V	78V	61V	
		Adjustable for A/AB-T			/00	010	
	CURRENT ADJ. RANGE			350 ~ 700mA	EDE 10E0mA	700 4400 4	
		175 ~ 350mA	250 ~ 500mA	350 ~ 700MA	525 ~ 1050mA	700 ~ 1400mA	
	CURRENT RIPPLE	5.0% max. @rated cu	rrent				
	CURRENT TOLERANCE	±5.0%					
	SET UP TIME Note.4	500ms/115VAC,230V/	AC				
	VOLTAGE RANGE Note.3	100 ~ 305VAC 14 (Please refer to "STAT	42 ~ 431VDC FIC CHARACTERIST	TC" section)			
	FREQUENCY RANGE	47 ~ 63Hz					
		PF≥0.97/115VAC. PF	E≥0.95/230VAC. PE	≥0.92/277VAC@full loa	d		
	POWER FACTOR (Typ.)	(Please refer to "POW	ER FACTOR (PF) CH	IARACTERISTIC" sectio	n)		
INPUT	TOTAL HARMONIC DISTORTION			; @load≧75%/277VAC) TORTION(THD)" sectio			
	EFFICIENCY (Typ.)	91%	91%	91%	90%	90%	
	AC CURRENT (Typ.)	0.7A / 115VAC 0.4	5A/230VAC 0.38/	A/277VAC			
	INRUSH CURRENT(Typ.)	COLD START 50A(tw	idth=350µs measure	d at 50% lpeak)/230VA0	C; Per NEMA 410		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	5 units (circuit breake	er of type B) / 8 units	(circuit breaker of type (C) at 230VAC		
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	NO LOAD / STANDBY	No load power consur	motion <0.5W for Bla	nk / A / Dx / D2-Type			
	POWER CONSUMPTION	Standby power consu	•				
	SHORT CIRCUIT		•	fault condition is remov	od		
		225 ~ 260V	160 ~ 190V	115 ~ 140V	80 ~ 100V	64~79V	
ROTECTION	OVER VOLTAGE	Shut down o/p voltag			00121000	04~79V	
	OVER TEMPERATURE	Shut down o/p voltag	•				
			· · · · ·	PUT LOAD vs TEMPER	ATURE" agotion)		
	WORKING TEMP.		Please relef to OUT	PUT LOAD VS TEIMPER	ATORE Section)		
	MAX. CASE TEMP.	Tcase=+85℃					
	WORKING HUMIDITY	20 ~ 95% RH non-con	¥				
NVIRONMENI	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95%					
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)					
	VIBRATION	10 ~ 500Hz, 5G 12mir	n./1cycle, period for	72min. each along X, Y,	Z axes		
	SAFETY STANDARDS		EN62384;EAC TP TC	004;BIS IS15885(for 70	31347-1, BS EN/EN/AS/N 00A/700B/700DA/10		
	DALI STANDARDS			by request) for DA Type	only		
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC					
	ISOLATION RESISTANCE			00VDC / 25°C / 70% RH			
	EMC EMISSION	Compliance to BS EN	/EN55015,BS EN/EN	61000-3-2 Class C (@l	oad \geq 50%) ; BS EN/EN6	61000-3-3; GB17743,	
	EMC IMMUNITY	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,Line-Line:4KV); EAC TP TC 020; KC KN15, KN61547					
	MTBF	1171.4K hrs min. Telc			MIL-HDBK-217F (25°C	C)	
OTHERS	DIMENSION	180*63*35.5 mm (L*)			•		
	PACKING	0.8Kg;16pcs/13.4Kg/0.6	,				
NOTE	 All parameters NOT specia 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 typic: Please refer to the warranty The ambient temperature de For any application note an https://www.meanwell.com/ To fulfill requirements of th connected to the mains. 	AETHODS OF LED MOE inder low input voltages. asured at first cold start. a component that will be al equipment manufactur al life expectancy of >50, v statement on MEAN Wi rrating of 3.5°C/1000m w d IP water proof function Upload/PDF/LED_EN.pdi e latest ErP regulation for	DULE". Please refer to "STATI Turning ON/OFF the d e operated in combinati rers must re-qualify EM 000 hours of operation ELL's website at http:// ith fanless models and installation caution, ple f r lighting fixtures, this L	C CHARACTERISTIC" se triver may lead to increase on with final equipment. S IC Directive on the comple when Tcase, particularly (www.meanwell.com of 5°C/1000m with fan me base refer our user manual ED power supply can only	ctions for details. of the set up time. ince EMC performance will te installation again. (b) point (or TMP, per DLC podels for operating altitude I before using.	c), is about 80 ℃ or less. higher than 2000m(650) without permanently	

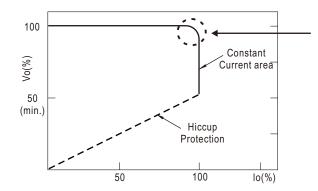


ELG-75-C series



DRIVING METHODS OF LED MODULE

 $\%\,$ This series works in constant current mode to directly drive the LEDs.

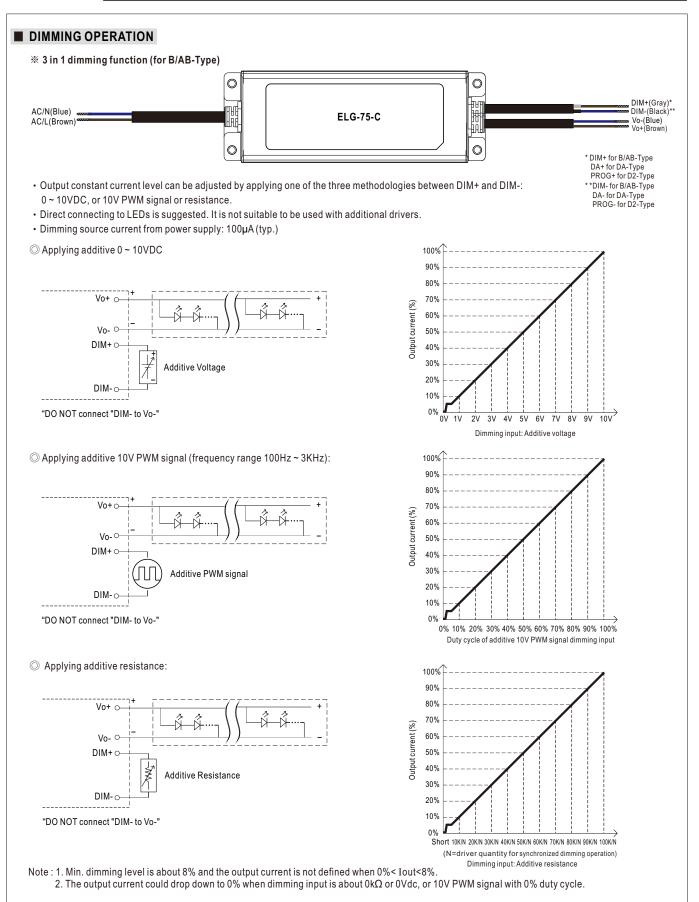


Typical output current normalized by rated current (%)

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.







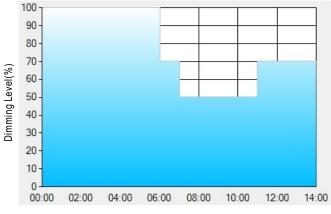
※ DALI Interface (primary side; for DA-Type)

- 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:

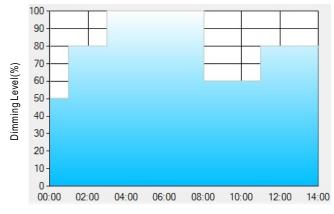
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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: 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%



**: 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.

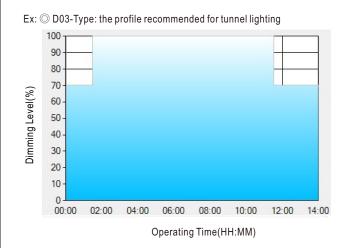
[3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.

[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-75-C series



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.

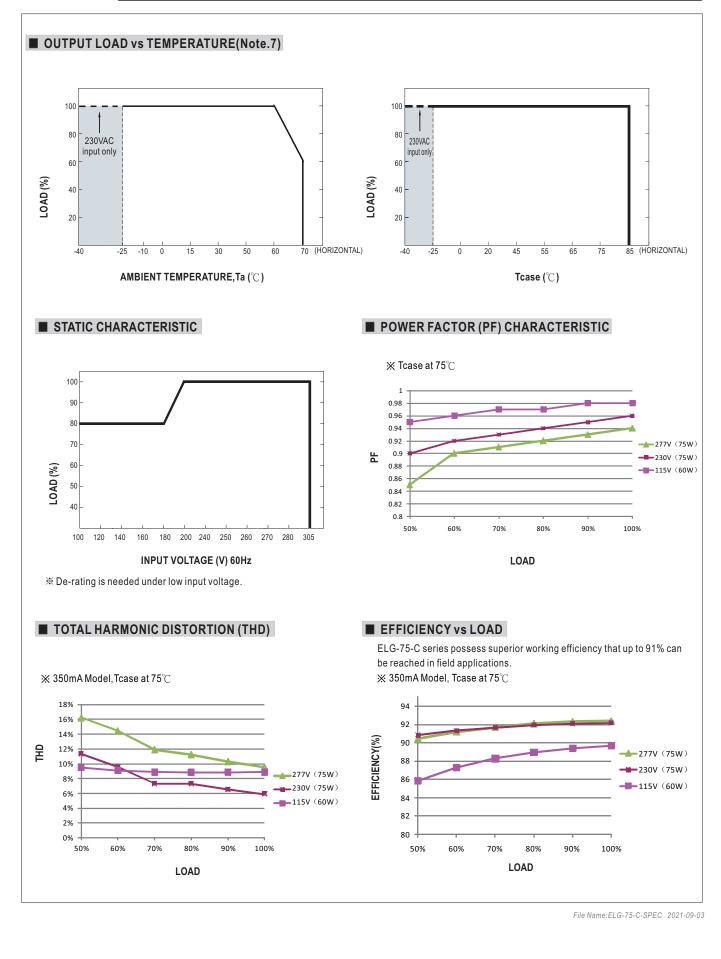
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

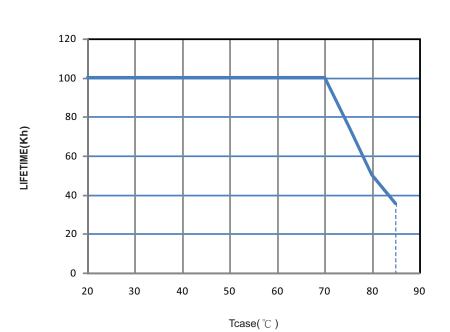




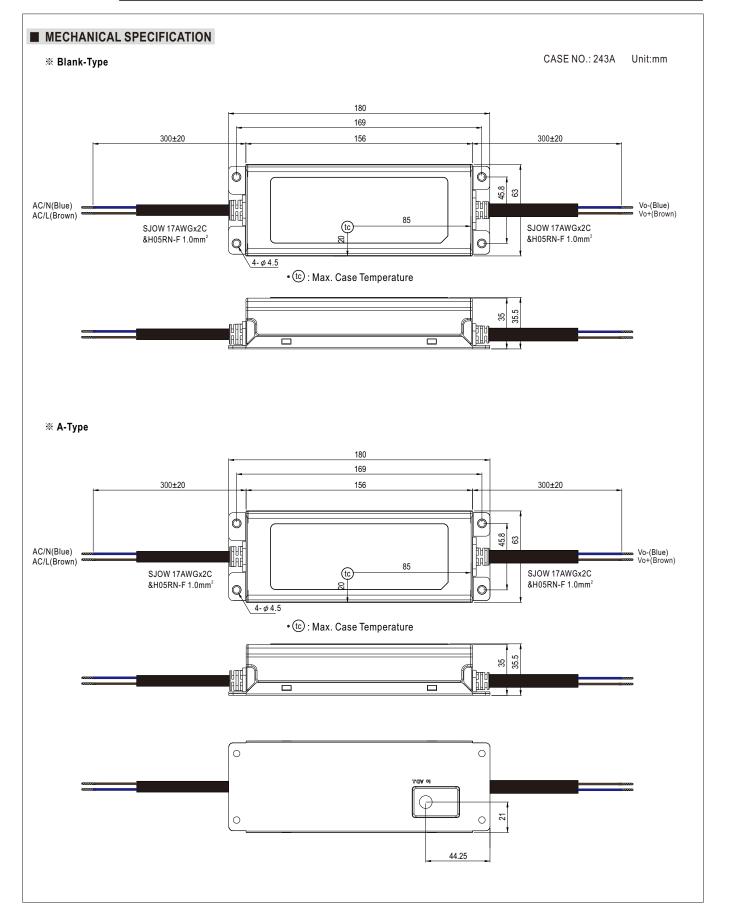


ELG-75-C series

LIFE TIME

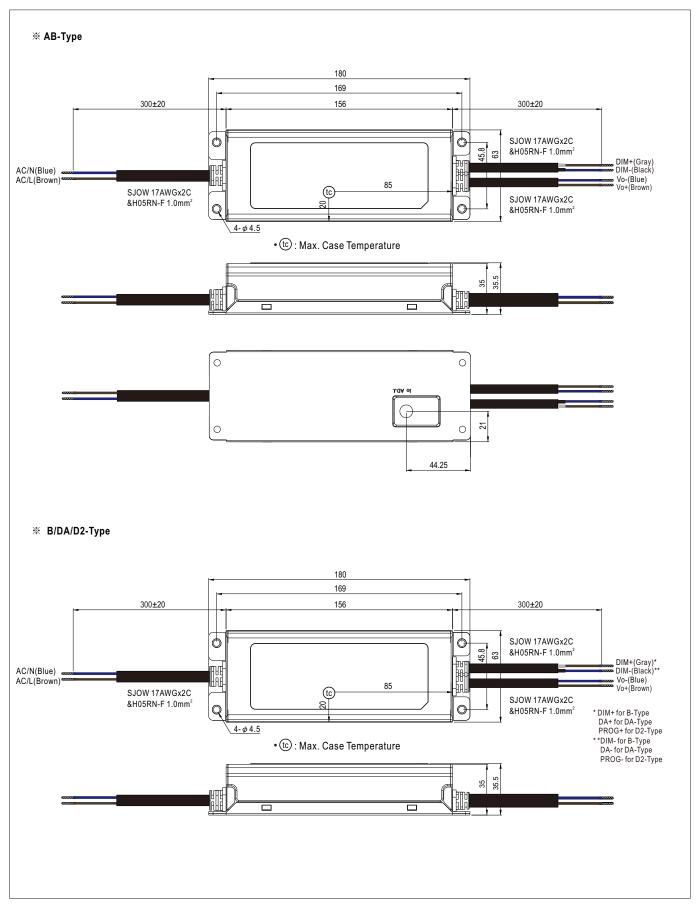




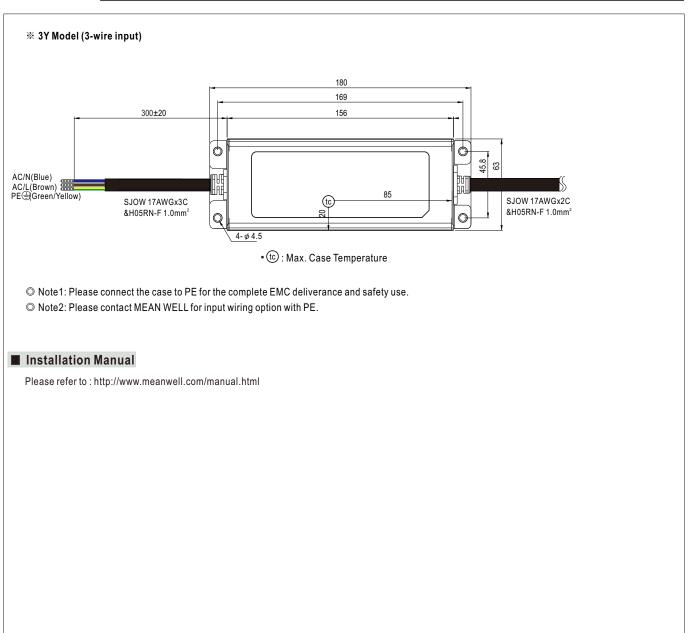


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