



Features

- Constant Voltage + Constant Current mode output
- Metal housing design with functional Ground
- Built-in active PFC function
- Class 2 power unit
- 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

Description

Applications

- LED street lighting
- LED architectural lighting

IS 15885(Part 2/Sec13)

8 R-41027766

(for 12B/24B/36A/42A/48A only

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

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ELG-75 series is a 75W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-75 operates from $100 \sim 305VAC$ and offers models with different rated voltage ranging between 12V and 48V. Thanks to the high efficiency up to 90%, 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-75 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 - 24	A -
	Input wiring type
	Function mode option 3Y:3-wire input for standard model
	——— Rated output voltage(12/24/36/42/48V)
	Rated wattage
	Series name

Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed.	In Stock
A	IP65	Io and Vo 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 and Vo 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

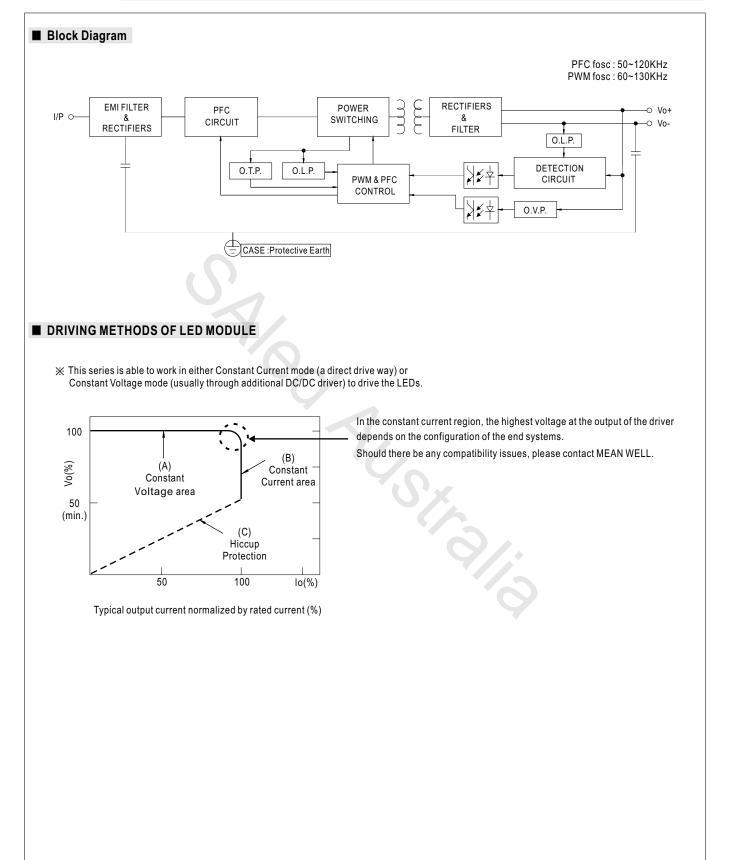


SPECIFICATION

MODEL		ELG-75-12	ELG-75-24	ELG-75-36	ELG-75-42	ELG-75-48	
	DC VOLTAGE	12V	24V	36V	42V	48V	
	CONSTANT CURRENT REGION Note.2	6 ~ 12V	12 ~ 24V	18~36V	21~42V	24~48V	
	RATED CURRENT	5A	3.15A	2.1A	1.8A	1.6A	
		200VAC ~ 305VAC					
		60W	75.6W	75.6W	75.6W	76.8W	
RATED POWER Note		100VAC ~ 180VAC	10.000	10.011	10.011	10.000	
			0014/	0014	0000	00144	
		48W	60W	60W	60W	60W	
	RIPPLE & NOISE (max.) Note.3		200mVp-p	250mVp-p	250mVp-p	250mVp-p	
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type	only (via built-in potentic	ometer)			
	VOLIAGE ADD. MARGE	10.8 ~ 13.2V	21.6 ~ 26.4V	32.4 ~ 39.6V	37.8~46.2V	43.2 ~ 52.8V	
OUTPUT		Adjustable for A/AB-Type	only (via built-in potentic	om <mark>eter)</mark>			
	CURRENT ADJ. RANGE	2.5~5A	1.57 ~ 3.15A	1.05~2.1A	0.9~1.8A	0.8 ~ 1.6A	
	VOLTAGE TOLERANCE Note.4	±3.0%	±3.0%	±2.5%	±2.5%	±2.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±0.5%	±0.5%	
	SETUP, RISE TIME Note.6	500ms, 100ms/115VAC, 2			20.070		
		10ms/ 230VAC 10ms/ 11					
	HOLD UP TIME (Typ.)		, ,				
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 - (Please refer to "STATIC		(i.e.m.)			
			CHARACTERISTIC Sec	uonj			
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR	PF≧0.97/115VAC, PF					
		(Please refer to "POWI	()		,		
	TOTAL HARMONIC DISTORTION	THD<20%(@load≧5		-	,		
		(Please refer to "TOT	AL HARMONIC DIST	ORTION(THD)" sec	tion)		
NPUT	EFFICIENCY (Typ.)	85%	88%	89%	90%	90%	
	AC CURRENT	0.7A / 115VAC 0.45A /	230VAC 0.38A/277V/	AC			
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=350µs measured at 50% Ipeak) at 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					
			untion to FWI for Diani				
	NO LOAD / STANDBY	No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA-Type					
	POWER CONSUMPTION	,,	mption < 0.5 W for B / A	B / DA-Type			
	OVER CURRENT	95 ~ 108%					
		Constant current limiting, recovers automatically after fault condition is removed					
	SHORT CIRCUIT	Hiccup mode, recovers a	utomatically after fault co	ndition is removed			
ROTECTION	OVER VOLTAGE	14 ~ 18V	28 ~ 34V	41~48V	47~54V	54~62V	
	OVERVOLIAGE	Shut down output voltag	je, re-power on to recove	er			
	OVER TEMPERATURE	Shut down output voltag	e, re-power on to recove	er			
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+85°C			<u> </u>		
	WORKING HUMIDITY	20 ~ 95% RH non-conder	nsina				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% R					
	TEMP. COEFFICIENT	- /					
		±0.03%/℃ (0~60℃)					
	VIBRATION	10 ~ 500Hz, 5G 12min./1				40 - L - L - L - EN00004	
	SAFETY STANDARDS				IEC/EN/AS/NZS 61347-2- 57; GB19510.1, GB19510.	13 independent, EN62384;	
		KC61347-1,KC61347-2-		A/40A Uniy), iF 05 UI iF 0	<i>I</i> , GD19510.1, GD19510.	14,	
	DALI STANDARDS	Compliance to IEC62386		ne only			
	WITHSTAND VOLTAGE						
SAFETY &		I/P-O/P:3.75KVAC I/F					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG					
	EMC EMISSION	Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 50%) ; EN61000-3-3; GB17743, GB17625.1;EAC TP TC 020; KC KN15,KN61547					
	EMC IMMUNITY	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, KN6154					
	MTBF	1172K hrs min. Telcordia	SR-332 (Bellcore)	331Khrs min. MIL-HE	DBK-217F (25℃)		
OTHERS	DIMENSION	180*63*35.5mm (L*W*H)				
	PACKING	0.8Kg;12pcs/13.4Kg/0.6	7CUFT				
IOTE	 All parameters NOT speciali Please refer to "DRIVING M Ripple & noise are measured Tolerance : includes set up to De-rating may be needed up Length of set up time is mea The driver is considered as a complete installation, the fina This series meets the typical Please refer to the warranty The ambient temperature de 	ETHODS OF LED MODU at 20MHz of bandwidth by blerance, line regulation an nder low input voltages. P asured at first cold start. T a component that will be of al equipment manufacture l life expectancy of >50,00 statement on MEAN WE erating of 3.5°C/1000m w d IP water proof function i	JLE". y using a 12" twisted pair d load regulation. lease refer to "STATIC (urning ON/OFF the drivi operated in combination rs must re-qualify EMC 20 hours of operation wi LL's website at http://ww th fanless models and c installation caution, please	wire terminated with a CHARACTERISTIC" se er may lead to increase with final equipment. S Directive on the compl en Tcase, particularly w.meanwell.com f 5°C/1000m with fan i	0.1uf & 47uf parallel capar ections for details. e of the set up time. Since EMC performance v ete installation again. (c) point (or TMP, per DL models for operating altitu	vill be affected by the .C), is about 70°C or less.	
	10. The ambient temperature de	erating of 3.5° C/1000m w d IP water proof function i	ith fanless models and c installation caution, pleas	f 5 $^\circ\mathbb{C}$ /1000m with fan i	al before using.	de higher than 20	

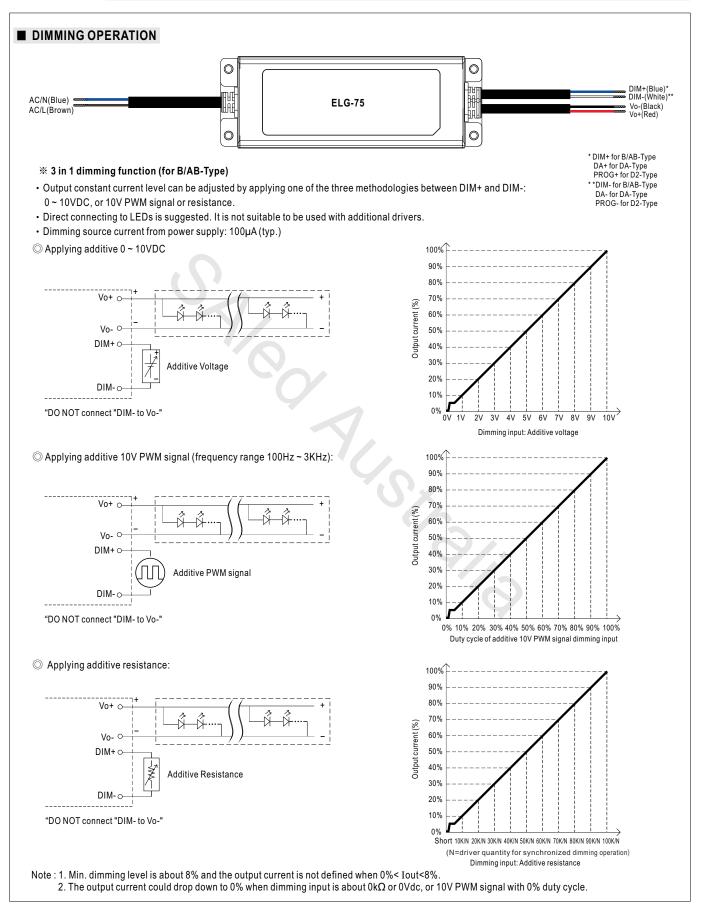


48~75W Constant Voltage + Constant Current LED Driver





48~75W Constant Voltage + Constant Current LED Driver





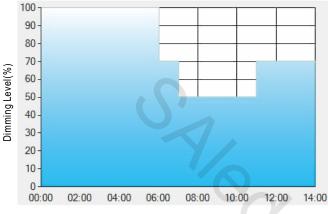
※ DALI Interface (primary side; for DA-Type)

- · 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	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:

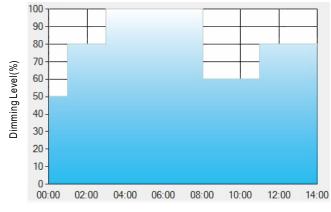
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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



Set up for D02-Type in Smart timer dimming software program:

	T1	T2	Т3	Τ4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

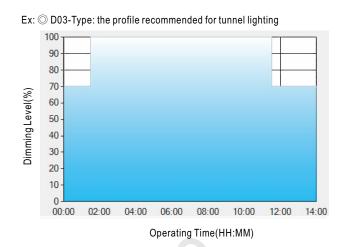
Operating Time(HH:MM)

- **: 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.





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.

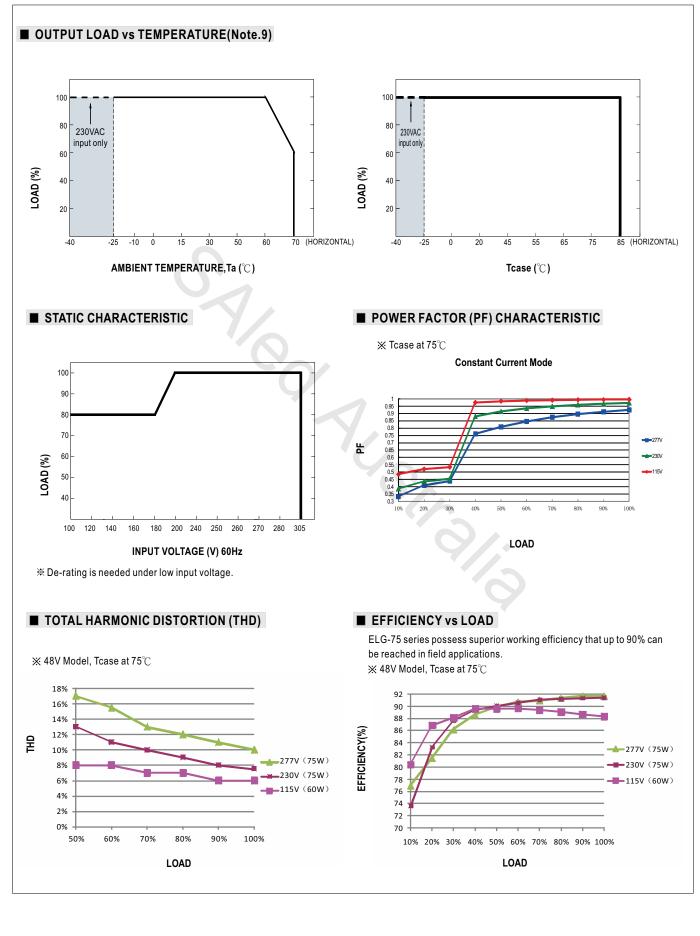
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

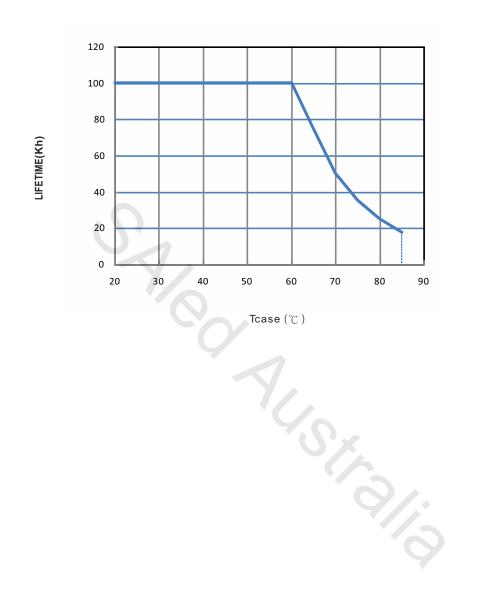
[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



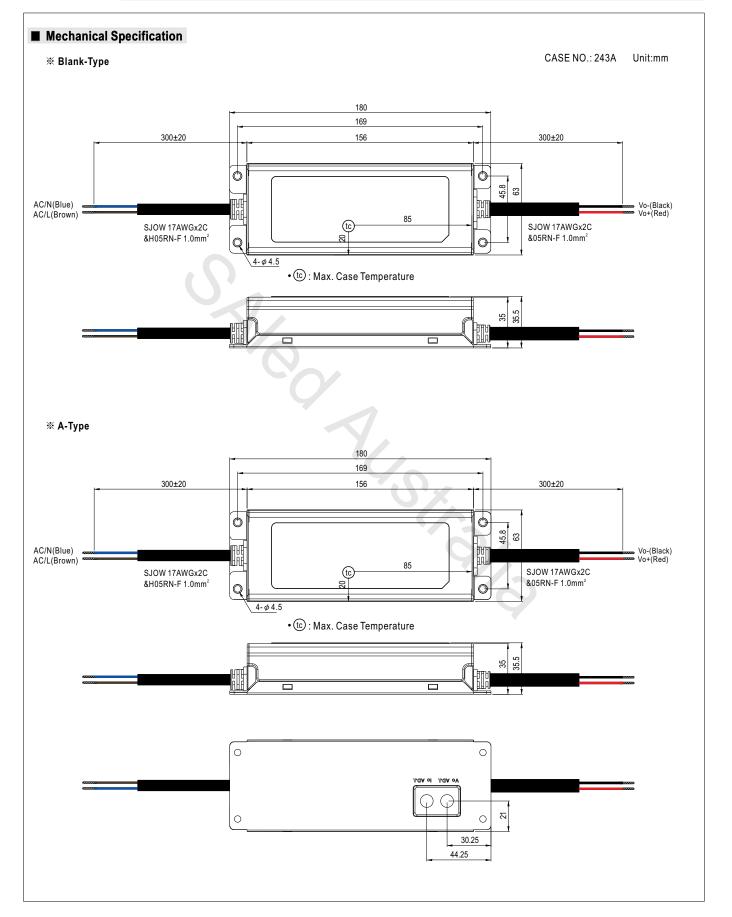




LIFE TIME









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