



(for DA-Type only) (for DA-T

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

ELG-75 series is a 75W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-75 operates from $100 \sim 305$ VAC 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° 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 C3Y: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

Applications

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

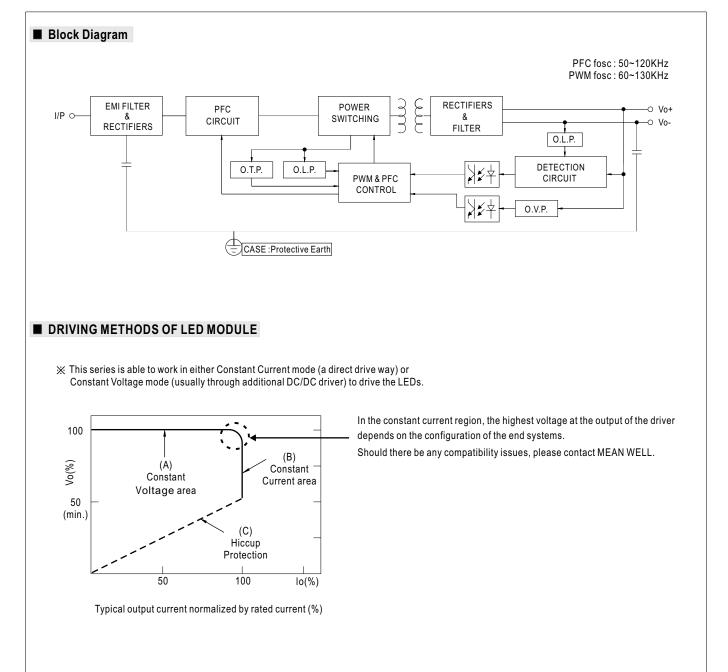
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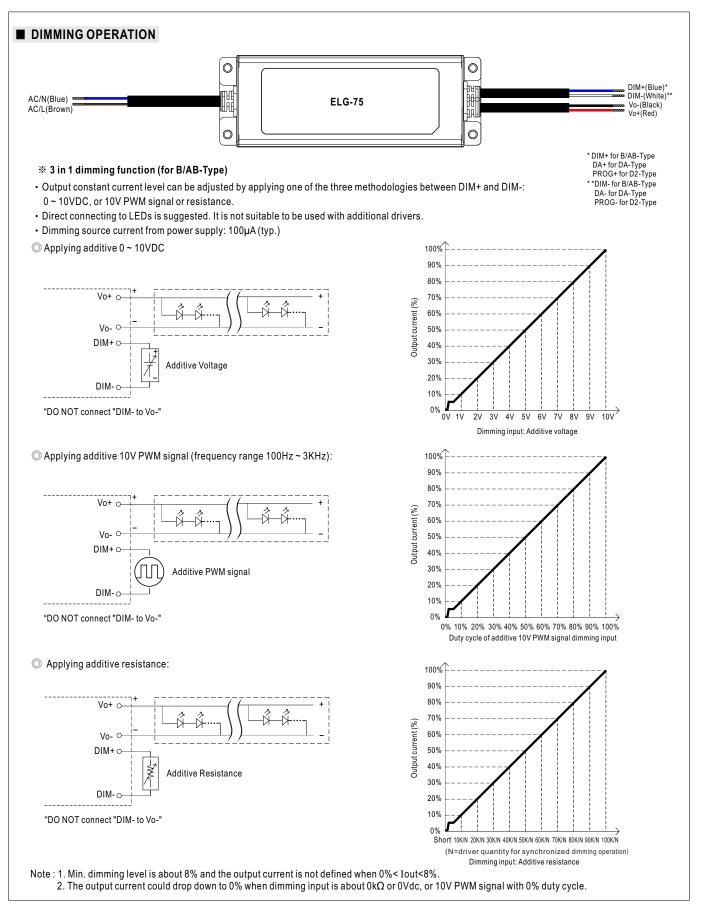
SPECIFICATION

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		12 ~ 24V	18 ~ 36V	21~42V	24~48V		
	RATED CURRENT	5A	3.15A	2.1A	1.8A	1.6A		
		200VAC ~ 305VAC						
	RATED POWER Note.5	60W	75.6W	75.6W	75.6W	76.8W		
		100VAC ~ 180VAC	10.011	10.011	10.000	10.000		
		48W	60W	60W	60W	60W		
			200mVp-p	250mVp-p	250mVp-p			
	RIPPLE & NOISE (max.) Note.3	• •			250mvp-p	250mVp-p		
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type		· · · · · · · · · · · · · · · · · · ·				
ουτρυτ		10.8 ~ 13.2V	21.6~26.4V	32.4 ~ 39.6V	37.8 ~ 46.2V	43.2 ~ 52.8V		
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type		,	1			
		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%	±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						
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 11	5VAC(at full load)					
	VOLTAGE RANGE Note.5		- 431VDC					
		(Please refer to "STATIC	CHARACTERISTIC" se	ction)				
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR	PF≧0.97/115VAC, PF						
		(Please refer to "POWE	R FACTOR (PF) CH	ARACTERISTIC" secti	on)			
	TOTAL HARMONIC DISTORTION	THD<20%(@load≧50						
		(Please refer to "TOT	AL HARMONIC DIST	FORTION(THD)" sec	tion)			
INPUT	EFFICIENCY (Typ.)	85%	88%	89%	90%	90%		
	AC CURRENT	0.7A / 115VAC 0.45A /	230VAC 0.38A/277\	/AC				
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth	=350μs measured at 50	0% Ipeak) at 230VAC; Pe	er NEMA 410			
	MAX. No. of PSUs on 16A	5 units (circuit breaker of	tuno B) / 9 unito (circui	threaker of two C) at 2				
	CIRCUIT BREAKER	5 units (circuit breaker of	type b) / o units (circui	t breaker of type C) at 23	JUVAC			
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	NO LOAD / STANDBY	No load power consum	nption <0.5W for Blar	nk / A / Dx / D2-Type				
	POWER CONSUMPTION		•	••				
		Standby power consumption <0.5W for B / AB / DA-Type						
	OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed						
	SHORT CIRCUIT	Hiccup mode, recovers a	,		Jved			
PROTECTION	SHOKT CIRCUIT	14 ~ 18V	28 ~ 34V	41 ~ 48V	47~54V	54 ~ 62V		
	OVER VOLTAGE	Shut down output voltag			47~54V	54~020		
		Shut down output voltag	<u>, 1</u>		" anotion)			
	WORKING TEMP.	Tcase=-40 ~ +85℃ (Plea	se refer to "OUTPUT Lo	JAD VS TEMPERATURE	section)			
	MAX. CASE TEMP.	Tcase=+85°C						
	WORKING HUMIDITY	20 ~ 95% RH non-conder	5					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% R	Н					
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1	cycle, period for 72min.	each along X, Y, Z axes				
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; IEC/EN/AS/NZS 61347-1, IEC/EN/AS/NZS 61347-2-13 independent, EN62384; EAC TP TC 004; BIS IS15885(for 12B/24B/36A/42A/48A only); IP65 or IP67; GB19510.1, GB19510.14; KC61347-1, KC61347-2-13 approved						
	DALI STANDARDS	Compliance to IEC62386-101,102,(207 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						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
	EMC EMISSION				3; GB17743, GB17625.1:EA	C TP TC 020; KC KN15,KN615		
	EMC IMMUNITY			, ·		EAC TP TC 020; KC KN15, KN615		
	MTBF	•		, , , , ,				
OTHERS	DIMENSION	1172K hrs min. Telcordia SR-332 (Bellcore) 331Khrs min. MIL-HDBK-217F (25°C) 180*63*35.5mm (L*W*H)						
	PACKING	0.8Kg;16pcs/13.4Kg/0.67CUFT						
NOTE	 All parameters NOT speciall Please refer to "DRIVING M Ripple & noise are measured Tolerance : includes set up to De-rating may be needed ur Length of set up time is mea The driver is considered as a complete installation, the final This series meets the typical Please refer to the warranty The ambient temperature de 11.For any application note and https://www.meanwell.com/l 	ETHODS OF LED MODU at 20MHz of bandwidth by lerance, line regulation and ider low input voltages. P scured at first cold start. T a component that will be of al equipment manufacture life expectancy of >50,00 statement on MEAN WEI erating of 3.5°C/1000m wi d IP water proof function i Jpload/PDF/LED_EN.pdf	JLE". y using a 12" twisted pa d load regulation. lease refer to "STATIC urning ON/OFF the driv operated in combination rs must re-qualify EMC 10 hours of operation w L's website at http://w th fanless models and	ir-wire terminated with a CHARACTERISTIC" set ver may lead to increase with final equipment. S Directive on the complete then Tcase, particularly ww.meanwell.com of 5°C/1000m with fan to use refer our user manu	0.1uf & 47uf parallel capace ections for details. e of the set up time. Since EMC performance we te installation again. (c) point (or TMP, per DL models for operating altitude al before using.	rill be affected by the C), is about 70 $^\circ\!$		











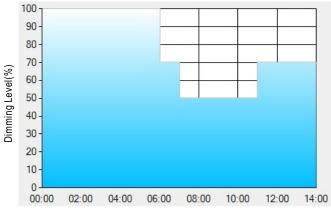
※ DALI Interface (primary side; for DA-Type)

- 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:

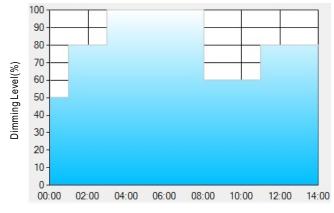
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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%

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.

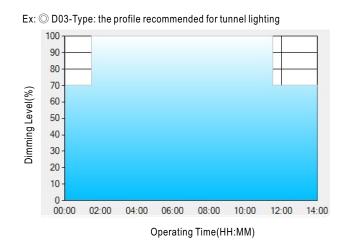
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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.

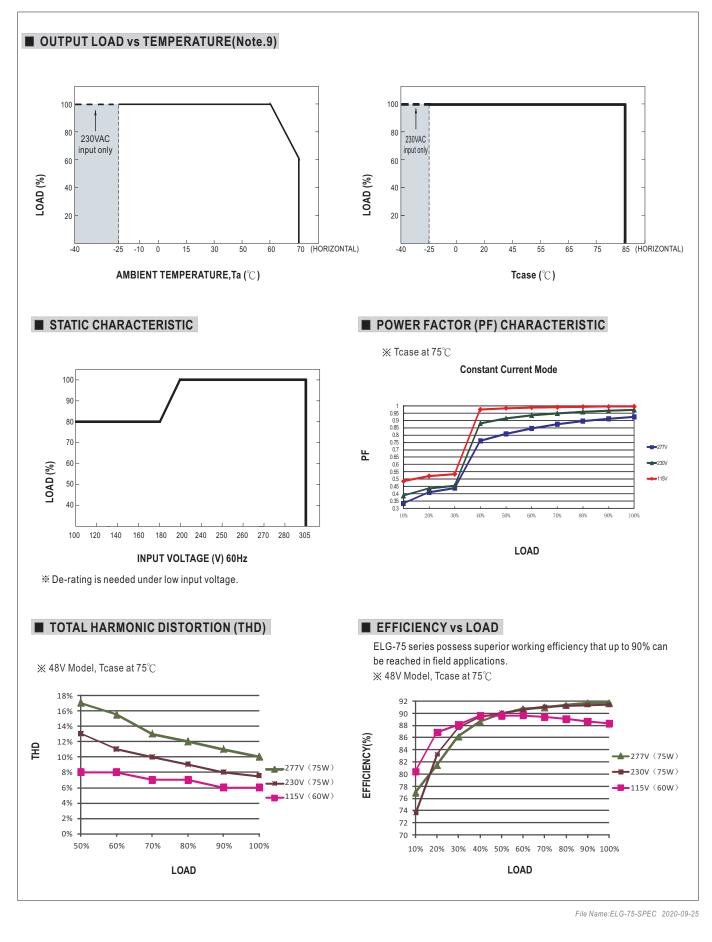
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

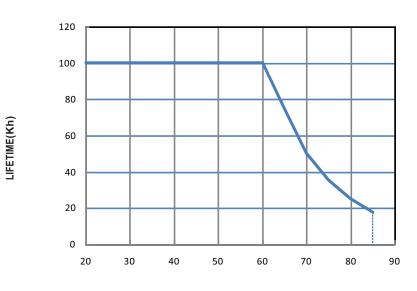
[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.





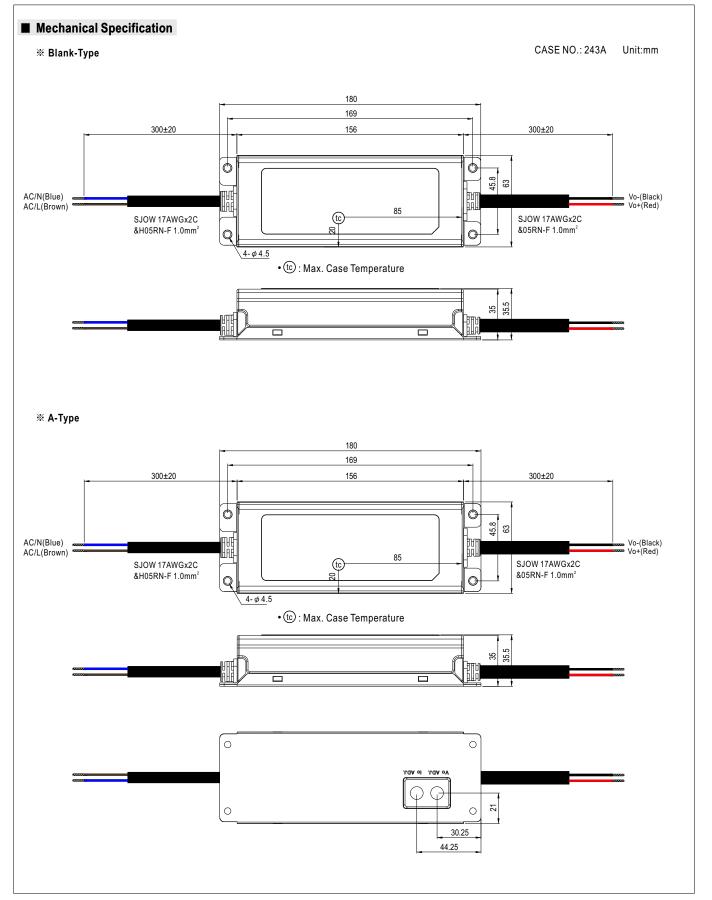


LIFE TIME

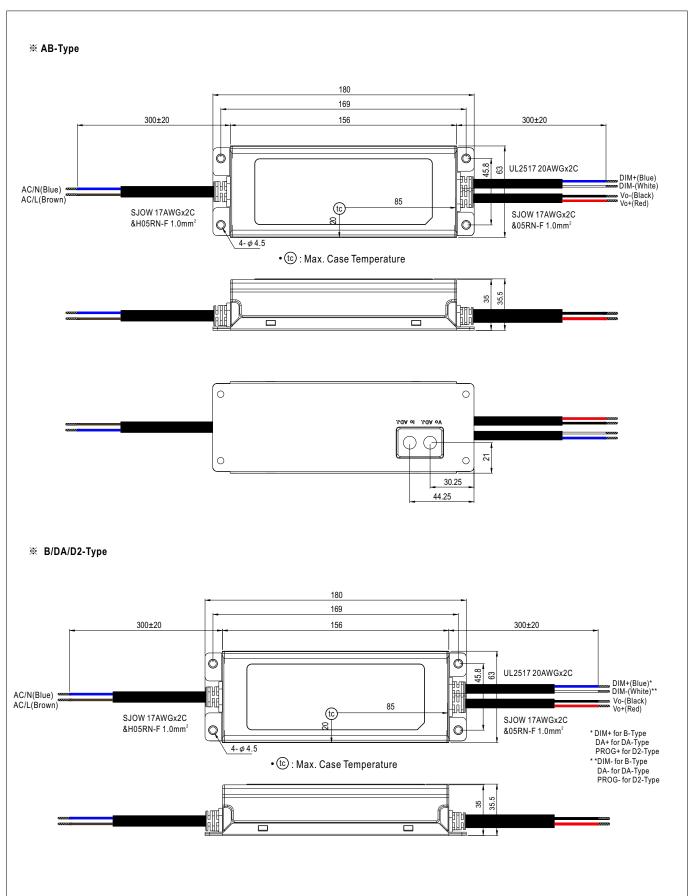


Tcase ($^{\circ}C$)

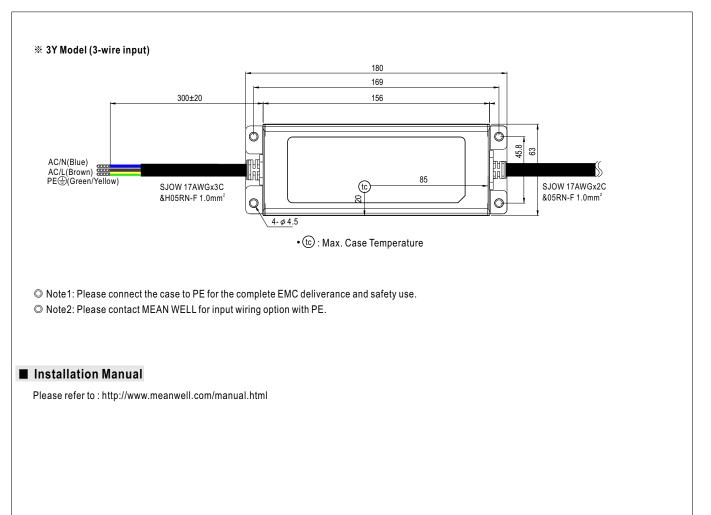












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