





Applications

GTIN CODE

LED street lighting

· LED bay lighting

LED floodlighting

· LED architectural lighting

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

hazardous (Classified) location.

MW Search: https://www.meanwell.com/serviceGTIN.aspx

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 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

File Name:ELG-75-SPEC 2024-10-11



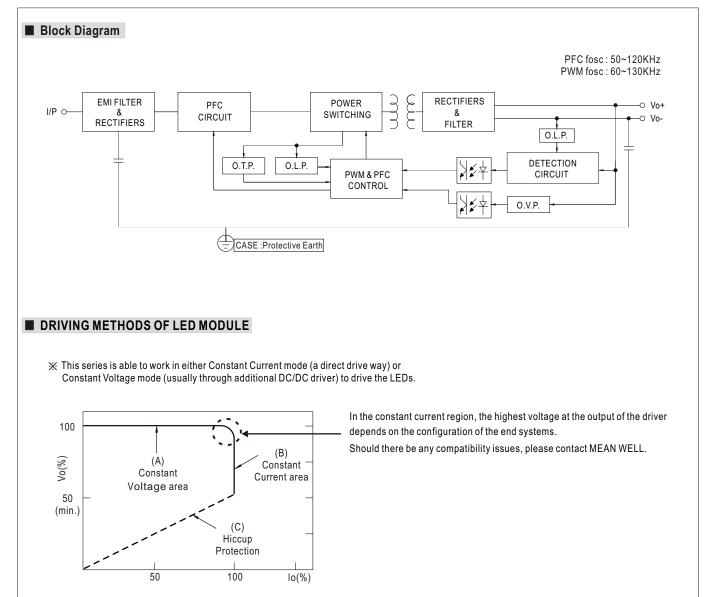
SPECIFICATION

MODEL		ELG-75-12 🗌	ELG-75-24	ELG-75-36	ELG-75-42	2 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.5	100VAC ~ 180VAC	L.		ŀ	L		
		48W	60W	60W	60W	60W		
	RIPPLE & NOISE (max.) Note.3		200mVp-p	250mVp-p	250mVp-p			
	RIPPLE & NOISE (IIIAX.) Note.3				2301117-0	2501170-0		
	VOLTAGE ADJ. RANGE		Type only (via built-in p	· · · · ·				
OUTPUT		10.8 ~ 13.2V	21.6~26.4V	32.4 ~ 39.6	V 37.8 ~ 46.2	2V 43.2 ~ 52.8V		
	CURRENT ADJ. RANGE		Type only (via built-in p	,				
		2.5~5A	1.57 ~ 3.15A	1.05 ~ 2.1A	0.9 ~ 1.8A			
	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, 230VAC						
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10m	s/ 115VAC(at full load)					
		100 ~ 305VAC	142 ~ 431VDC					
	VOLTAGE RANGE Note.5	(Please refer to "STA	TIC CHARACTERIST	IC" section)				
	FREQUENCY RANGE	47 ~ 63Hz						
		PF≧0.97/115VAC	PF≧0.95/230VAC	, PF≧0.92/277VAC	@full load			
	POWER FACTOR	(Please refer to "P	OWER FACTOR (PF) CHARACTERISTI	C" section)			
		THD< 20%(@load	l≧50%/115VC.230	VAC; @load≧75%/	277VAC)			
	TOTAL HARMONIC DISTORTION			DISTORTION(TH				
NPUT	EFFICIENCY (Typ.)	86%	88%	89%	90%	90%		
	AC CURRENT	0.7A / 115VAC 0.4		V277VAC	00,0	00,0		
	INRUSH CURRENT(Typ.)			d at 50% lpeak) at 230				
	MAX. No. of PSUs on 16A	0020 01/11/1 00/11/1		a at 00 % ipeak) at 200	Wite, Fernelin, 1410			
	CIRCUIT BREAKER	5 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA/277VAC						
	LEARAGE CORRENT				-			
	NO LOAD / STANDBY			r Blank / A / Dx / D2-	-Туре			
	POWER CONSUMPTION	Standby power consumption <0.5W for B / AB / DA-Type						
	OVER CURRENT	95 ~ 108%						
	OVER CONRENT	Constant current limit	ing, recovers automati	cally after fault conditio	n is removed			
	SHORT CIRCUIT	Hiccup mode, recove	ers automatically after	fault condition is remo	ved			
PROTECTION		14 ~ 18V	28~34V	41~48V	47 ~ 54V	54 ~ 62V		
	OVER VOLTAGE	Shut down output vo	oltage, re-power on to	recover				
	OVER TEMPERATURE	Shut down output vo	ltage, re-power on to	recover				
	WORKING TEMP.			PUT LOAD vs TEMPE	RATURE" section)			
	MAX. CASE TEMP.	Tcase=+85℃						
	WORKING HUMIDITY	20 ~ 95% RH non-co	ndensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95	% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C						
	VIBRATION		,	72min. each along X, Y	7 2205			
						EN/EN/AS/NZS 61347-2-13 in	ndenende	
	SAFETY STANDARDS					36A/36B/42A/42B/48A/4		
		P65 or IP67; GB19510.1, GB19510.14; KC61347-1, KC61347-2-13 approved						
	DALI STANDARDS	Compliance to IEC6	2386-101,102,(207 b	y request) for DA Typ	e only			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC	I/P-FG:2.0KVAC	O/P-FG:1.5KVAC				
ЕМС	ISOLATION RESISTANCE	I/P-O/P. I/P-FG. O/F	P-FG:100M Ohms / 50	0VDC/25°C/70% RI	4			
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 50%) ; BS EN/EN61000-3-3; GB/T 17743, GB17625.1;						
	EMC EMISSION	EAC TP TC 020; KC					, , , ,	
		Compliance to BS EI	V/EN61000-4-2,3,4,5,6	5,8,11; BS EN/EN6154	7, light industry level (sur	rge immunity Line-Earth 6KV,		
	EMC IMMUNITY	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	3451.7K hrs min. Telcordia SR-332 (Bellcore) 331.3Khrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	180*63*35.5mm (L*)	N*H)					
	PACKING	0.8Kg;16pcs/13.4Kg	/0.67CUFT					
NOTE	 All parameters NOT specially Please refer to "DRIVING ME Ripple & noise are measured Tolerance : includes set up to De-rating may be needed unc Length of set up time is meas The driver is considered as a complete installation, the final (as available on https://www.m This series meets the typical I Please refer to the warranty s The ambient temperature de For any application note and 	THODS OF LED MO at 20MHz of bandwid lerance, line regulation fer low input voltages. sured at first cold start component that will b equipment manufactu neanwell.com//Upload/ ife expectancy of >50 tatement on MEAN W rating of 3.5°C/1000M	DULE". th by using a 12" twisi and load regulation. Please refer to "STAT Turning ON/OFF the e operated in combina irers must re-qualify E PDF/EMI_statement_ 000 hours of operatio 'ELL's website at http: with fanless models a	ted pair-wire terminate IC CHARACTERISTIC driver may lead to inci- tion with final equipme MC Directive on the co- en.pdf) n when Tcase, particul //www.meanwell.com and of 5°C/1000m with	d with a 0.1uf & 47uf para C" sections for details. rease of the set up time. ent. Since EMC performan omplete installation again arty (c) point (or TMP, pe	allel capacitor. nce will be affected by the er DLC), is about 70 $^\circ\!C$ or less		

12. For A/AB type need to consider build in using to comply with Type HL application.
 ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

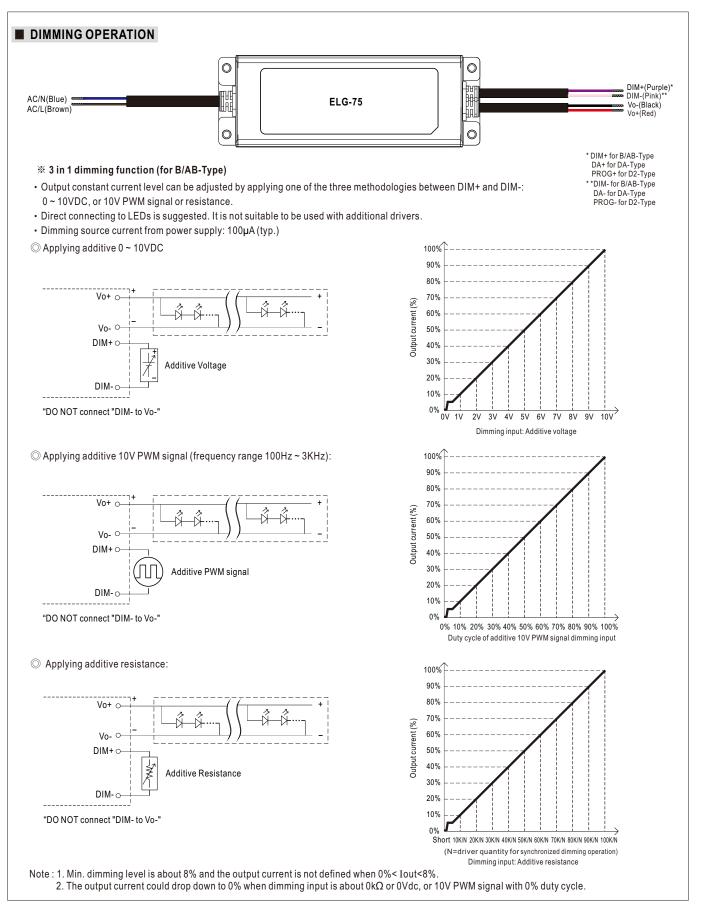


ELG-75 series



Typical output current normalized by rated current (%)







ELG-75 series

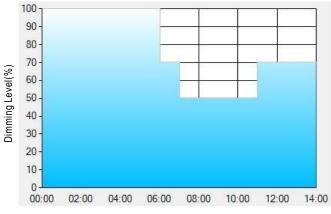
※ DALI Interface (primary side; for DA-Type)

- 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:

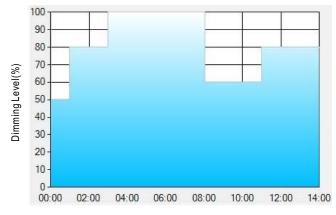
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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	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.

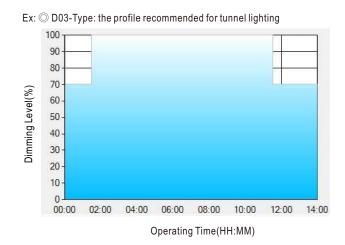
[3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.

[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.



ELG-75 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.

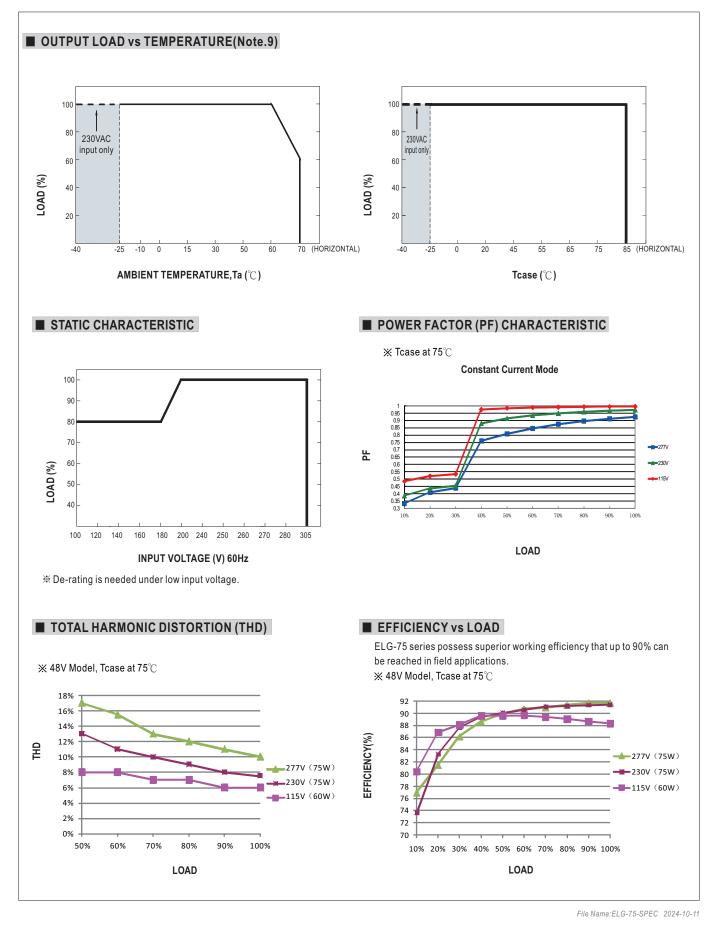
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

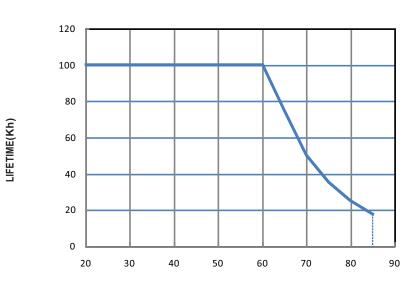






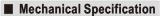
ELG-75 series

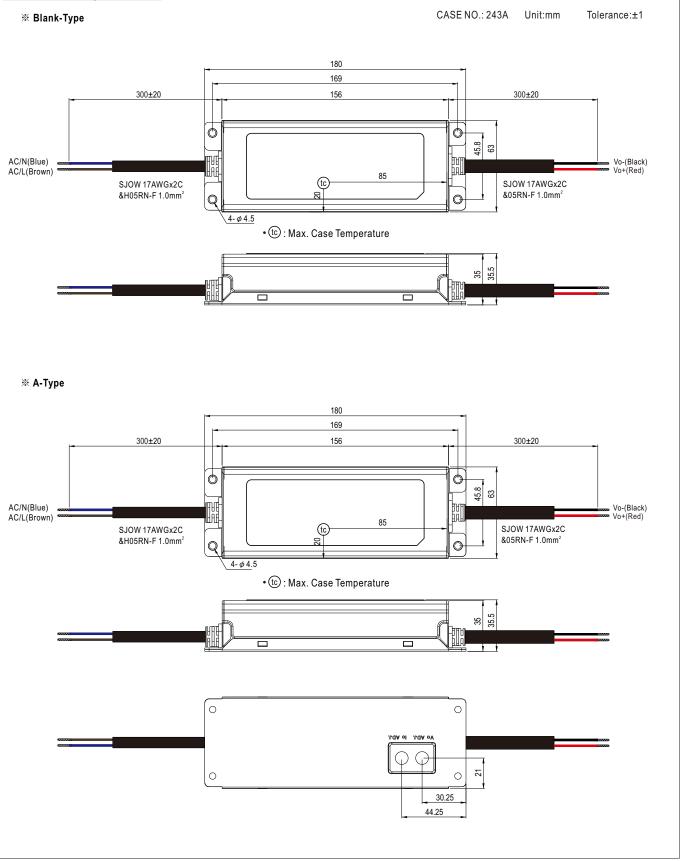
LIFE TIME



Tcase(℃)

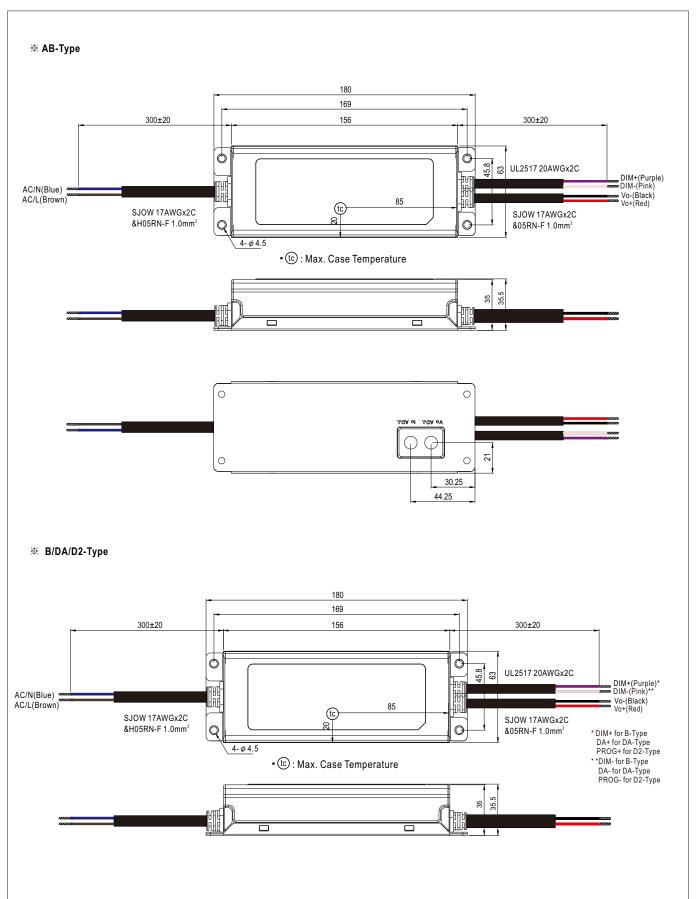








ELG-75 series



File Name:ELG-75-SPEC 2024-10-11



