





DALD 110 M (for DA-Type only)

Applications

GTIN CODE

LED street lighting

· LED bay lighting

LED floodlighting

· LED architectural lighting

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 100~305VAC 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° 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	
	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

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

hazardous (Classified) location.

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

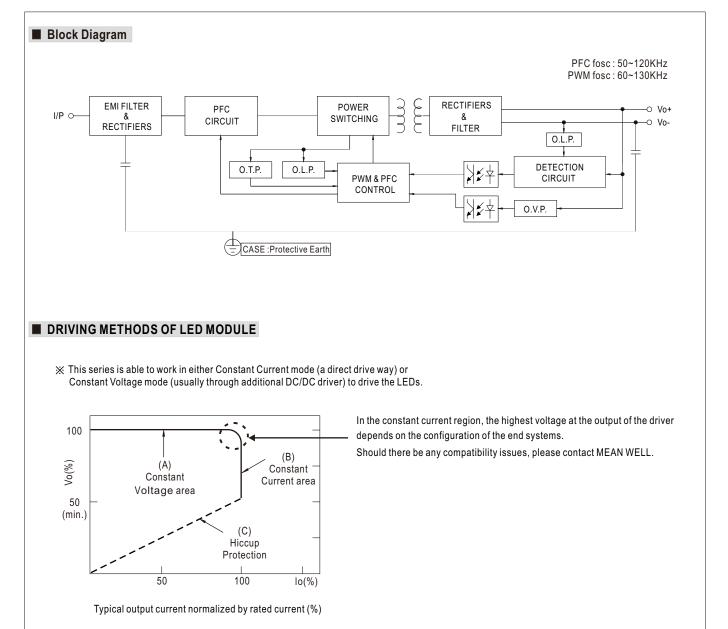


SPECIFICATION

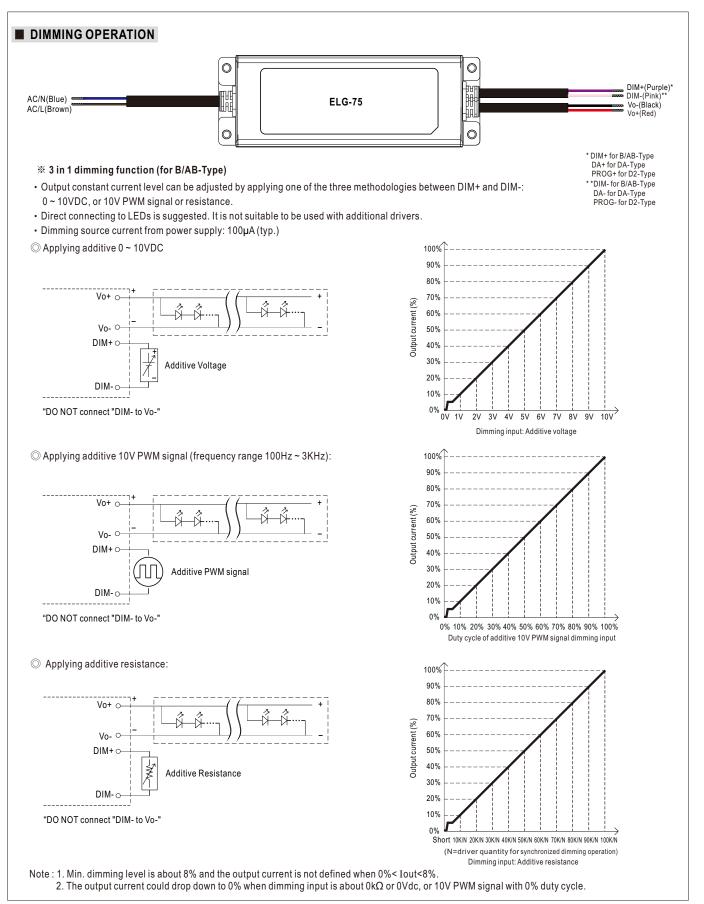
MODEL		ELG-75-12	ELG-75-24	ELG-75-36	ELG-75-42	ELG-75-48		
	DC VOLTAGE	12V	24V	36V	42V	48V		
	CONSTANT CURRENT REGION Note.2	6 ~ 12V	12 ~ 24V	18 ~ 36V	21~42V	24 ~ 48V		
	RATED CURRENT	5A	3.15A	2.1A	1.8A	1.6A		
		200VAC ~ 305VAC						
		60W	75.6W	75.6W	75.6W	76.8W		
	RATED POWER Note.5	100VAC ~ 180VAC						
		48W	60W	60W	60W	60W		
	RIPPLE & NOISE (max.) Note.3	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p		
		Adjustable for A/AB-Type						
	VOLTAGE ADJ. RANGE	10.8 ~ 13.2V	21.6 ~ 26.4V	32.4 ~ 39.6V	37.8 ~ 46.2V	43.2 ~ 52.8V		
ουτρυτ		Adjustable for A/AB-Type			57.0 * 40.2 V	40.2 02.00		
	CURRENT ADJ. RANGE	2.5 ~ 5A	1.57 ~ 3.15A	1.05 ~ 2.1A	0.9 ~ 1.8A	0.8 ~ 1.6A		
		±3.0%	±3.0%	±2.5%		±2.0%		
	VOLTAGE TOLERANCE Note.4			±0.5%	±2.5%			
	LINE REGULATION	±0.5%	±0.5%	±0.5% ±1.0%	±0.5%	±0.5%		
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±0.5%	±0.5%		
	SETUP, RISE TIME Note.6	500ms, 100ms/115VAC,						
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 1	. ,					
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC						
		(Please refer to "STATIC	CHARACTERISTIC" se	ection)				
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR	PF≧0.97/115VAC, PF	E≥0.95/230VAC, PF	≥0.92/277VAC@full lo	ad			
				ARACTERISTIC" secti				
	TOTAL HARMONIC DISTORTION			; @load≧75%/277VA0				
		(Please refer to "TOT	AL HARMONIC DIS	TORTION(THD)" sect	tion)			
NPUT	EFFICIENCY (Typ.)	86%	88%	89%	90%	90%		
	AC CURRENT	0.7A / 115VAC 0.45A	/ 230VAC 0.38A/277	VAC				
	INRUSH CURRENT(Typ.)	COLD START 50A(twidt	h=350µs measured at 5	0% Ipeak) at 230VAC; Pe	r 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	No load power consu	mption <0.5W for Bla	nk / A / Dx / D2-Type				
	POWER CONSUMPTION							
		Standby power consumption <0.5W for B / AB / DA-Type						
	OVER CURRENT		recovers automatically	ofter fault condition is rome	wod			
		Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION	SHORT CIRCUIT	14 ~ 18V	28 ~ 34V	41~48V	47~54V	54 ~ 62V		
NOTEONON	OVER VOLTAGE	Shut down output voltag			47~34V	54 ~ 02 V		
	OVER TEMPERATURE							
		Shut down output voltage, re-power on to recover						
	WORKING TEMP. MAX. CASE TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
		Tcase=+85℃						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
		UL8750(type"HL"), CSA C22.2 No. 250.13-12; IEC/BS EN/EN/AS/NZS 61347-1, IEC/BS EN/EN/AS/NZS 61347-2-13 independent						
	SAFETY STANDARDS	BS EN/EN62384;EAC TP TC 004;BIS IS15885(for 12A/12DA/12B/24A/24B/24DA/36A/36B/42A/42B/48A/48B only); IP65 or IP67; GB19510.1, GB19510.14; KC61347-1,KC61347-2-13 approved						
	DALI STANDARDS							
	WITHSTAND VOLTAGE	Compliance to IEC62386-101,102,(207 by request) for DA Type only						
SAFETY &		I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
EMC	ISOLATION RESISTANCE					0.0047740.0047005.4		
	EMC EMISSION	Compliance to BS EN/E EAC TP TC 020; KC KN		10-3-2 Class C (@load \geq	50%); BS EN/EN61000-3-	-3; GB17743, GB17625.1;		
				PC EN/EN61647 light in	aduatry laval (auraa immur	hity 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) ;331.3K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	180*63*35.5mm (L*W*H)						
	PACKING	0.8Kg;16pcs/13.4Kg/0.67CUFT						
	 All parameters NOT special 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 fina This series meets the typical Please refer to the warranty 	Iting 0.8Kg;16pcs/13.4Kg/0.67C0F1 II parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. lease refer to "DRIVING METHODS OF LED MODULE". ipple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. operace: includes set up tolerance, line regulation and load regulation. e-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. ength of set up time is measured at first cold start. Turring ON/OFF the driver may lead to increase of the set up time. ne driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the omplete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. nis series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 70°C or less. lease refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com he ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500f or any application note and IP water proof function installation caution, please refer our user manual before using.						

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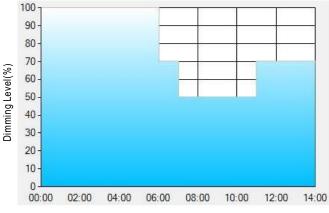
※ DALI Interface (primary side; for DA-Type)

- 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.

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:

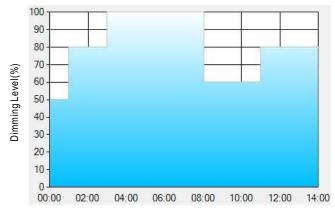
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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)

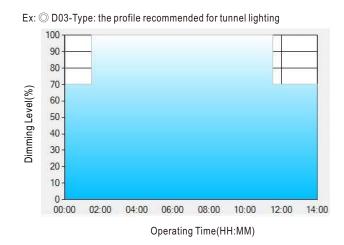
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

- 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.

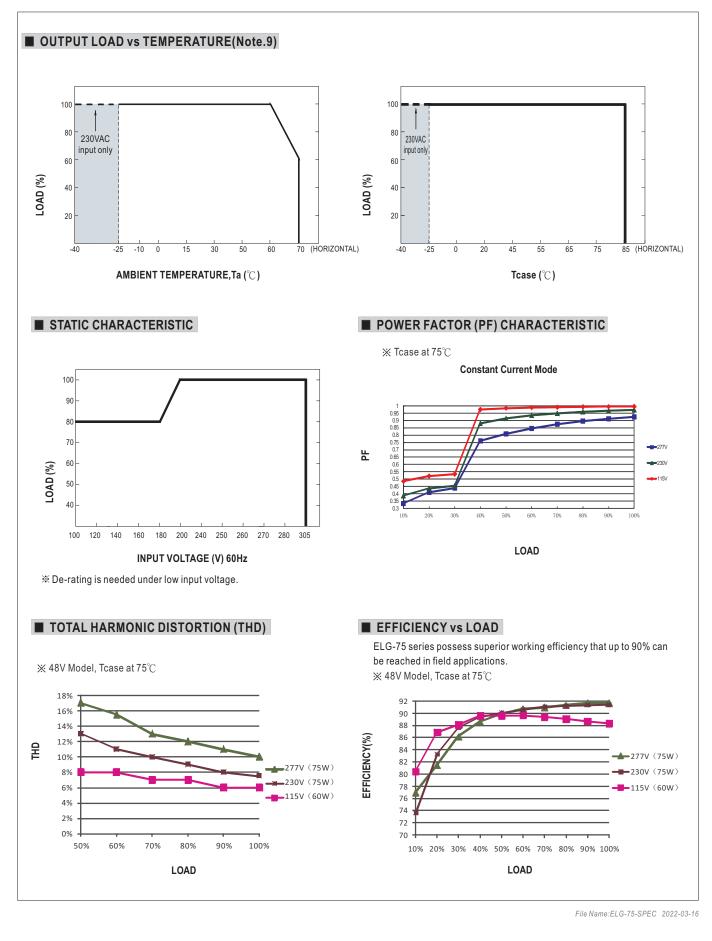
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

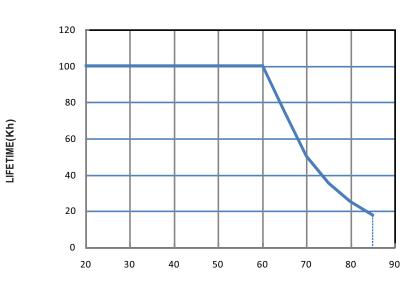
[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.







LIFE TIME



Tcase($^{\circ}C$)



