





DALD 110 M (for DA-Type only)

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

Applications

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



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						
	RATED POWER Note.5	60W	75.6W	75.6W	75.6W	76.8W		
		100VAC ~ 180VAC			!			
		48W	60W	60W	60W	60W		
	RIPPLE & NOISE (max.) Note.3		200mVp-p	250mVp-p	250mVp-p	250mVp-p		
	RIPPLE & NOISE (IIIAX.) Note.3				23011VP-P	23011vp-p		
	VOLTAGE ADJ. RANGE		e only (via built-in potenti	,				
OUTPUT		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-Typ	e only (via built-in potenti	ometer)				
	CONNENT ADD. NAMOL	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,	230VAC			1		
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 1						
	TIOLD OF TIME (Typ.)		~ 431VDC					
	VOLTAGE RANGE Note.5		CHARACTERISTIC" se	ction)				
	FREQUENCY RANGE	47 ~ 63Hz						
	FREQUENCI RANGE			0.02/277\/AC@full.loc	ad a second s			
	POWER FACTOR	PF≧0.97/115VAC, PF	$E = 0.95/250 \text{ VAC}, PF \ge 0.95/2500 \text{ VAC}, $	BACTERISTIC" section	10 (nc			
	TOTAL HARMONIC DISTORTION		50%/115VC,230VAC;					
			TAL HARMONIC DIST	. ,				
NPUT	EFFICIENCY (Typ.)	86%	88%	89%	90%	90%		
	AC CURRENT	0.7A / 115VAC 0.45A	/230VAC 0.38A/277V	AC				
	INRUSH CURRENT(Typ.)	COLD START 50A(twidt	th=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						
	NO LOAD / STANDBY	No load power consu	mption <0.5W for Blar	k / A / Dx / D2-Type				
	POWER CONSUMPTION	No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA-Type						
	OVER CURRENT	95~108%						
		Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed						
DOTECTION	SHORT CIRCUIT					54 0014		
ROTECTION	OVER VOLTAGE	14~18V	28~34V	41~48V	47 ~ 54V	54 ~ 62V		
		Shut down output volta	ge, re-power on to recov	er				
	OVER TEMPERATURE		ge, re-power on to recov					
	WORKING TEMP.	Tcase=-40 ~ +85°C (Ple	ase refer to " OUTPUT L	DAD vs TEMPERATURE	section)			
	MAX. CASE TEMP.	Tcase=+85°C						
	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	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						
МС	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
	EMC EMISSION				50%) : BS EN/EN61000-3-	-3: GB17743. GB17625.1:		
		Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 50%) ; BS EN/EN61000-3-3; GB17743, GB17625.1; EAC TP TC 020; KC KN15,KN61547						
	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	1172K hrs min. Telcordia SR-332 (Bellcore) 331Khrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	180*63*35.5mm (L*W*H)						
-	PACKING	0.8Kg;16pcs/13.4Kg/0.67CUFT						
NOTE	 All parameters NOT specially 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 	ETHODS OF LED MOD at 20MHz of bandwidth b lerance, line regulation ar ider low input voltages. F ssured at first cold start. ⁷ a component that will be	ULE". by using a 12" twisted paid load regulation. Please refer to "STATIC Turning ON/OFF the driv operated in combination ers must re-qualify EMC	r-wire terminated with a (CHARACTERISTIC" se er may lead to increase with final equipment. S Directive on the comple	0.1uf & 47uf parallel capac ctions for details. of the set up time. ince EMC performance v te installation again.	vill be affected by the		

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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.

 $Ex: \bigcirc D02$ -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%



**: 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(°C







ELG-75 series



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