



(tor DA-Type only) (tor DA-Type

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	P65 lo and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	
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

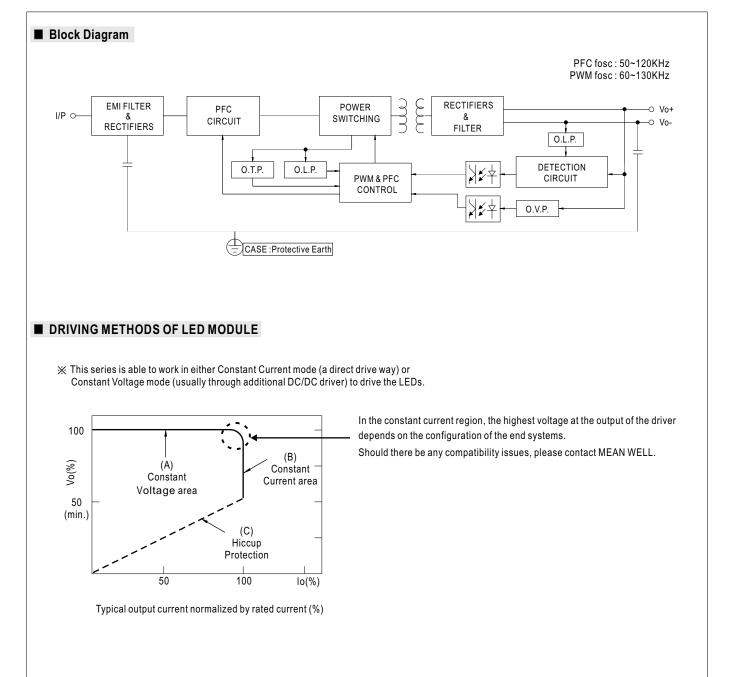
- LED street lighting
- LED architectural lighting
- LED bay lighting
- LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

F∰ @ CB(€

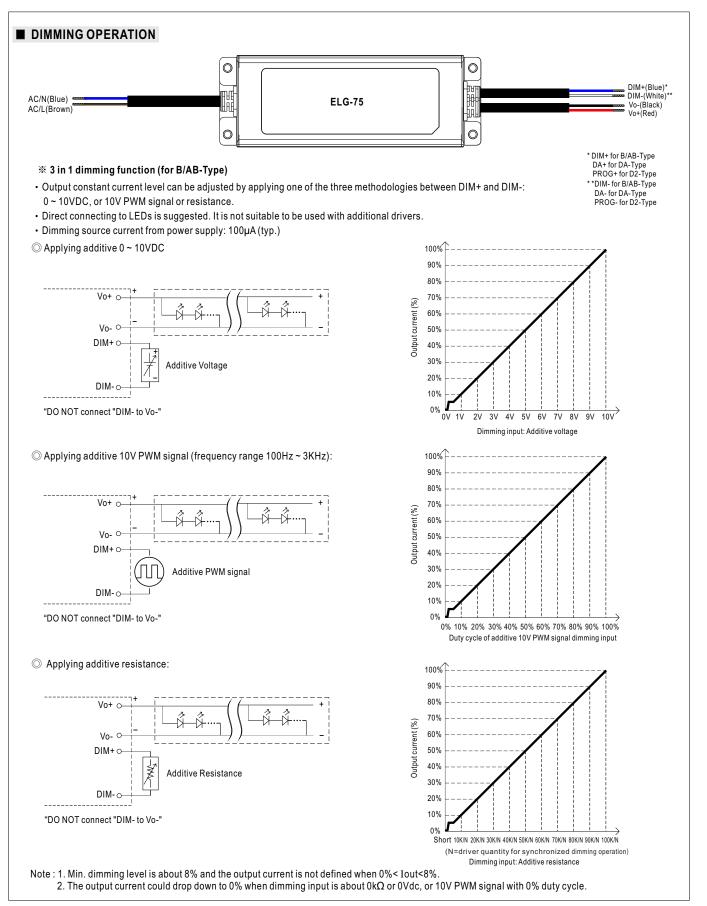


MODEL		ELG-75-12	ELG-75-24	ELG-75-36	ELG-75-42	ELG-75-48	
	DC VOLTAGE	12V	24V	36V	42V		
	CONSTANT CURRENT REGION Note.2	6~12V	12 ~ 24V	18~36V	21~42V	24~48V	
	RATED CURRENT	5A	3.15A	2.1A	1.8A	1.6A	
		200VAC ~ 305VAC	0.10/	2.17	1.0/	1.0/1	
		60W	75.6W	75 6\\	75 6\M	76.8W	
	RATED POWER Note.5	100VAC ~ 180VAC	70.000	75.6W	75.6W	70.800	
		48W	60W	60W	60W	60W	
	RIPPLE & NOISE (max.) Note.3	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type	only (via built-in potention	meter)			
	VOLIAGE ADJ. KANGE	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 potention	neter)			
	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%	
		±2.0%	±1.0%	±1.0%	±0.5%	±0.5%	
	SETUP, RISE TIME Note.6			=,	20.070	2010 /0	
		500ms, 100ms/115VAC, 230VAC 10ms/ 230VAC 10ms/ 115VAC(at full load)					
	HOLD UP TIME (Typ.)		. ,				
	VOLTAGE RANGE Note.5		~ 431VDC CHARACTERISTIC" sect	ion)			
			UNANAUTERIOTIU SECI	011)			
	FREQUENCY RANGE	47~63Hz			1		
	POWER FACTOR		\geq 0.95/230VAC, PF \geq 0 ER FACTOR (PF) CHAF				
			. ,				
	TOTAL HARMONIC DISTORTION		0%/115VC,230VAC;@				
		,	AL HARMONIC DISTO	, ,	,		
INPUT	EFFICIENCY (Typ.)	85%	88%	89%	90%	90%	
	AC CURRENT	0.7A/115VAC 0.45A	230VAC 0.38A/277VA	С			
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth	n=350 μ s measured at 50%	Ipeak) at 230VAC; Per	NEMA 410		
	MAX. No. of PSUs on 16A	5 units (circuit broaker o	f type B) / 8 units (circuit b	reaker of type () at 230	VAC		
	CIRCUIT BREAKER	o units (circuit breaker o	r type b) / o units (circuit t	feaker of type C) at 250	VAC		
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	NO LOAD / STANDBY	No load power consumption <0.5W for Blank / A / Dx / D2-Type					
	POWER CONSUMPTION		mption <0.5W for B / Al	• •			
		95~108%		,,			
	OVER CURRENT		recovers automatically after	r fault condition is remov	od		
	SHORT CIRCUIT		utomatically after fault cor		eu		
PROTECTION		14 ~ 18V	28 ~ 34V		47 - 541/	E4 - 60V	
FROILCHON	OVER VOLTAGE			41~48V	47 ~ 54V	54 ~ 62V	
			e, re-power on to recove				
			e, re-power on to recover		<i>u</i> >		
	WORKING TEMP.		se refer to "OUTPUT LOA	AD vs IEMPERATURE	section)		
	MAX. CASE TEMP.	Tcase=+85°C					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% R	Н				
	TEMP. COEFFICIENT	ENT ±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/EN/AS/NZS 61347-1, IEC/EN/AS/NZS 61347-2-13 independent, EN62384;					
	SAFETY STANDARDS	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	Compliance to EN55015,	EN61000-3-2 Class C (@loa	ad≧50%);EN61000-3-3;	GB17743, GB17625.1;EA	C TP TC 020; KC KN15,KN615	
	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, KN61547					
	MTBF	1172K hrs min. Telcordia	SR-332 (Bellcore) 3	31Khrs min. MIL-HDE	3K-217F (25℃)		
OTHERS	DIMENSION	180*63*35.5mm (L*W*H)				
	PACKING	0.8Kg;16pcs/13.4Kg/0.67CUFT					
	1. All parameters NOT special	v mentioned are measure	ed at 230VAC input, rated	current and 25°C of ar	nbient temperature.		
NOTE	2. Please refer to "DRIVING M	ETHODS OF LED MODU	JLE".		•	aitor	
		easured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. et up tolerance, line regulation and load regulation.					
	5. De-rating may be needed ur	e-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.					
	Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.						
	7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.						
		tinal equipment manufacturers must re-quality EMC Directive on the complete installation again. bical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70°C or less.					
	9. Please refer to the warranty	ty statement on MEAN WELL's website at http://www.meanwell.com					
		derating of 3.5° C/1000m with fanless models and of 5° C/1000m with fan models for operating altitude higher than 2000m(6500ft). nd IP water proof function installation caution, please refer our user manual before using.					
	https://www.meanwell.com/l						
		er : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx					
						File Name:ELG-75-SPEC 2020-0	











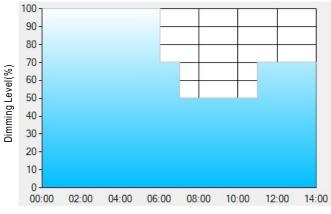
※ DALI Interface (primary side; for DA-Type)

- 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:

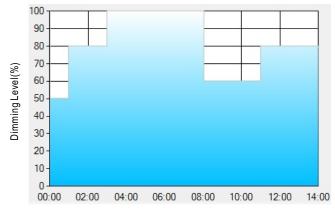
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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	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.

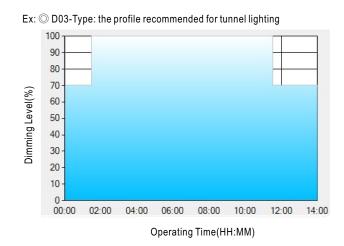
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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.

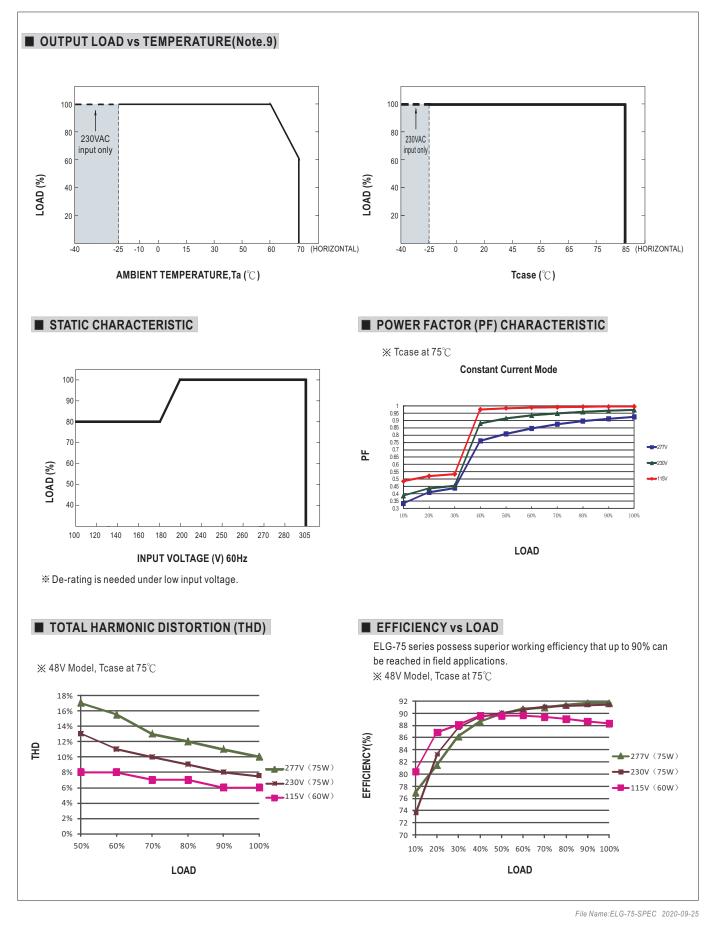
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

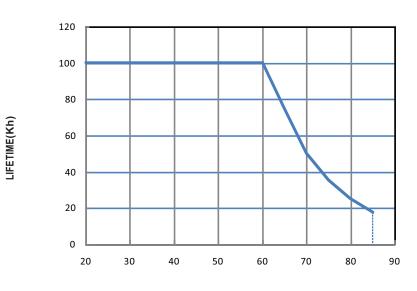
[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.







LIFE TIME



Tcase ($^{\circ}C$)



