

Наличие и актуальные цены на

# ELG-100-24DA-3Y

https://www.meanwell.ru/store/ELG-100-24DA-3Y/









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</li>
- 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-100 series is a 100W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-100 operates from 100~360VAC and offers models with different rated voltage ranging between 24V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for  $-40^{\circ}$ C ~  $+90^{\circ}$ 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-100 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system

#### Model Encoding

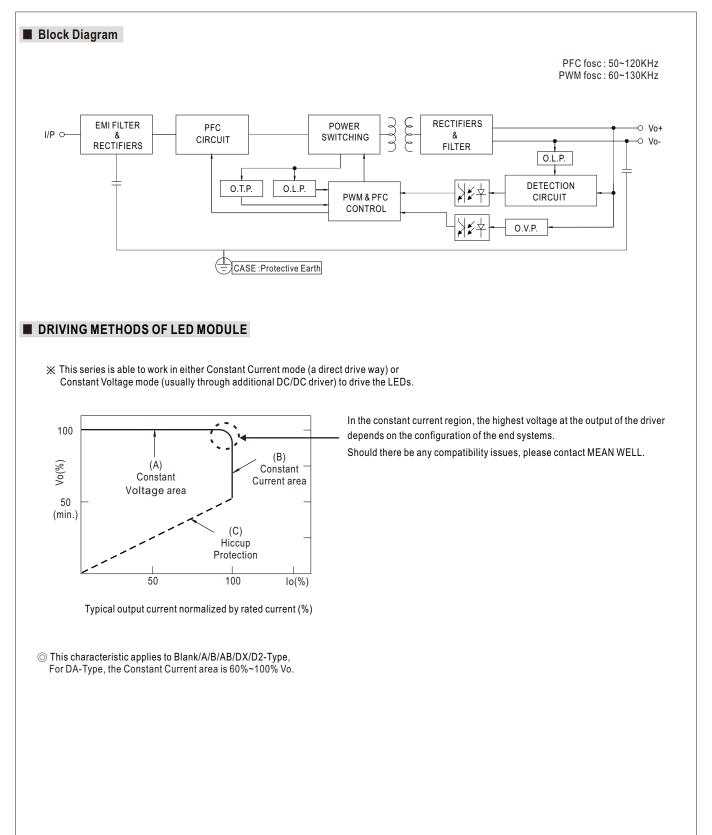
ELG - 100 - 36	
	Input wiring type
	Function mode option 3Y:3-wire input for standard model
	Rated output voltage(24/36/42/48/54V)
	Rated wattage
	———— Series name

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

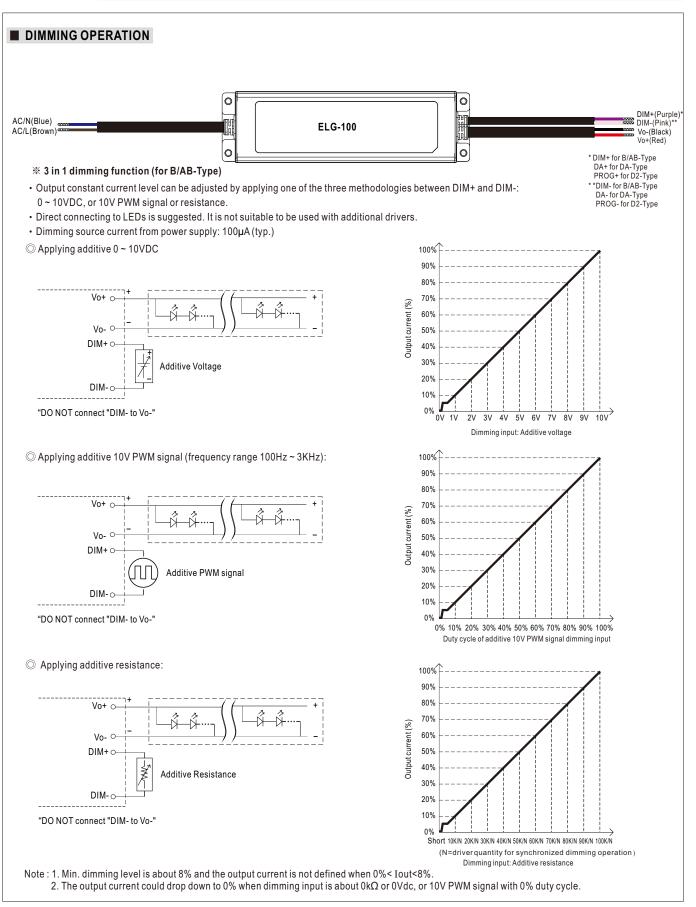


MODEL	ATION	ELG-100-24	ELG-100-36	ELG-100-42	ELG-100-48	ELG-100-54		
	DC VOLTAGE	24V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.2		18 ~ 36V	21~42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	4.0A	2.66A	2.28A	24 40V	1.78A		
	RAILDCORRENT	200VAC ~ 305VAC	2.00A	2.20A	ZA	1.70A		
		96W	95.76W	95.76W	96W	96.12W		
	RATED POWER	100VAC ~ 180VAC	95.7000	95.7000	3000	50.1210		
			7014/	7014/	7014/			
		70W	70W	70W	70W	70W		
	RIPPLE & NOISE (max.) Note.3	200mVp-p	250mVp-p	250mVp-p	300mVp-p	350mVp-p		
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type	only (via the built-in poter	ntiometer)				
		21.6 ~ 26.4V	32.4 ~ 39.6V	37.8 ~ 46.2V	43.2 ~ 52.8V	48.6 ~ 59.4V		
OUTPUT		Adjustable for A/AB-Type	only (via the built-in poter	ntiometer)		1		
	CURRENT ADJ. RANGE	2~4A	1.33~2.66A	1.14 ~ 2.28A	1 ~ 2A	0.89 ~ 1.78A		
	VOLTAGE TOLERANCE Note.4	±3.0%	±2.5%	±2.5%	±2.0%	±2.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME Note.6	1000ms, 80ms/115VAC	500ms. 100ms/230V/					
		,	/230VAC	10				
	HOLD UP TIME (Typ.)			2201/AC for 244ros 2	COV/AC for 1Ur			
	VOLTAGE RANGE Note.5		42 ~ 431VDC continue CHARACTERISTIC" sect		OUVACIOF THE			
			CHARACTERISTIC Sect	1011)				
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR		$0.95/230VAC, PF \ge 0.92/2000$					
		· ·	R FACTOR (PF) CHARAC	,				
	TOTAL HARMONIC DISTORTION		5/115VC; @load≧60%/23		'VAC)			
		(Please refer to "TOTAL	HARMONIC DISTORTIC	DN(THD)" section)				
INPUT	EFFICIENCY (Typ.)	88%	89%	90%	90%	91%		
	AC CURRENT	1.1A / 115VAC 0.6A /	230VAC 0.5A/277VAC	;		·		
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth	n=850µs measured at 50%	plpeak) at 230VAC; Per I	NEMA 410			
	MAX. No. of PSUs on 16A							
	CIRCUIT BREAKER	3 units (circuit breaker of	f type B) / 6 units (circuit b	oreaker of type C) at 230	/AC			
	LEAKAGE CURRENT	<0.75mA / 277VAC						
			ion do ENN for Diants / A / E	) / D2 Turne				
	NO LOAD / STANDBY POWER CONSUMPTION		tion <0.5W for Blank / A / E tion <0.5W for B / AB / DA					
		,, ,		-туре				
	OVER CURRENT	95~108%		<u> </u>	1			
			recovers automatically after		ed			
	SHORT CIRCUIT		utomatically after fault co					
ROTECTION	OVER VOLTAGE	28~34V	41~48V	47 ~ 54V	54 ~ 62V	62~72V		
		Shut down output voltag	e, re-power on to recove	r				
	OVER TEMPERATURE	Shut down output voltage, re-power on to recover						
	WORKING TEMP.	Tcase=-40 ~ +90°C (Plea	ase refer to " OUTPUT LO	AD vs TEMPERATURE" :	section)			
	MAX. CASE TEMP.	Tcase=+90°C						
	WORKING HUMIDITY	20 ~ 95% RH non-conder	nsing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% R	Н					
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1	cycle, period for 72min. e	ach along X, Y, Z axes				
			<b>7</b> - 11	• • •	17-1, IEC/BS EN/EN/AS/NZ	ZS 61347-2-13 independent,		
	SAFETY STANDARDS					B/48/48B/54/54A/54ADA/54E		
			9510.14; IP65 or IP67;KC6	,	approved			
SAFETY &	DALI STANDARDS	Compliance to IEC6238	6-101,102,(207 by reque	st) for DA Type only				
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P	P-FG:2.0KVAC O/P-FG	:1.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG	:100M Ohms / 500VDC /	25°C/70% RH				
	EMC EMISSION			B-2 Class C (@load $\geq$ 60	%); BS EN/EN61000-3-3;G	GB/T 17743, GB17625.1;		
		EAC TP TC 020; KC KN1	5,KN61547					
	EMC IMMUNITY			S EN/EN61547, light indu	stry level (surge immunity	Line-Earth 6KV, Line-Line 4K		
		EAC TP TC 020; KC KN15, KN61547						
	MTBF	2920.8K hrs min. Telcord	,	282.9Khrs min. MIL-I	HDBK-217F (25℃)			
OTHERS	DIMENSION	199*63*35.5mm (L*W*H)						
	PACKING	0.85kg; 16pcs/14.2kg/0.72CUFT						
NOTE	1. All parameters NOT specially me							
	<ol> <li>Please refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage under rated power delivery.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> </ol>							
	4. Tolerance : includes set up tolerance, line regulation and load regulation.							
	5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.							
	<ol> <li>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.</li> <li>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</li> </ol>							
	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.							
	(as available on https://www.meanwell.com//Upload/PDF/EML_statement_en.pdf)							
	8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly 🕼 point (or TMP, per DLC), is about 80°C or less.							
<ol> <li>Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</li> <li>The 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(6500ft).</li> </ol>					m(6500ft).			
	11. For any application note and IP							
	https://www.meanwell.com/Uplo	pad/PDF/LED_EN.pdf						
	<ol> <li>D2 models need to be program</li> <li>To fulfill requirements of the late</li> </ol>	med in the state of loading. est ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.						
	14. For A/AB type need to consider			by carroiniy be used bening		-		
	Construct Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							











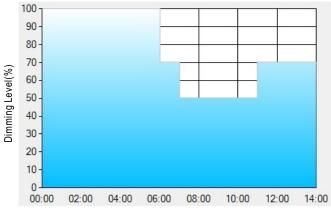
#### ※ DALI Interface (primary side; for DA-Type)

- 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%



\*\*: 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.

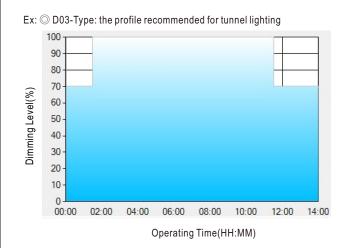
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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:

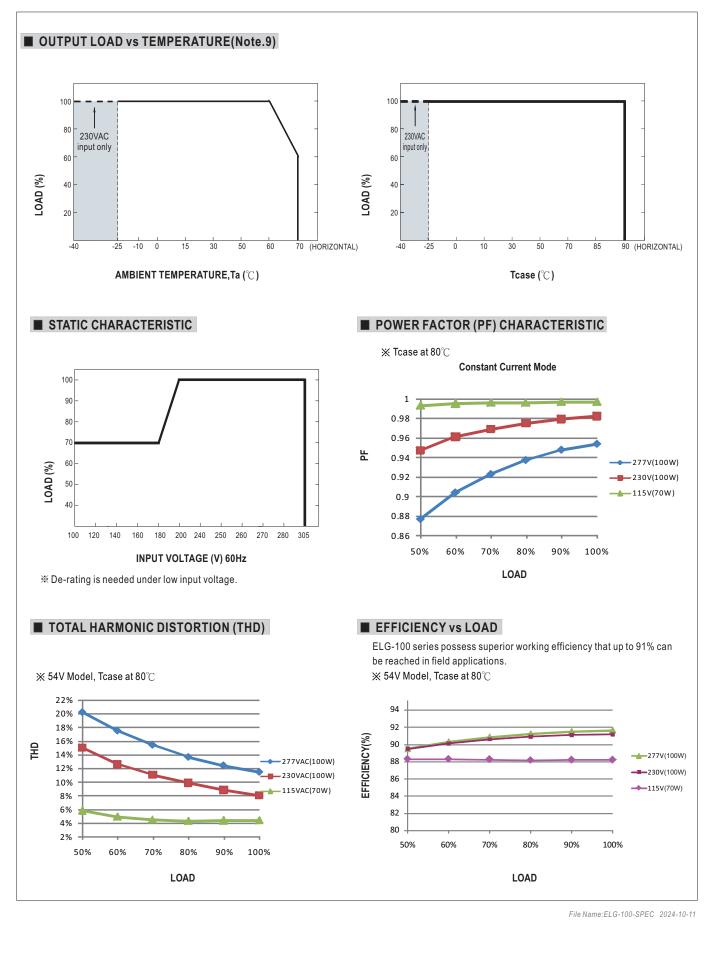
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[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.



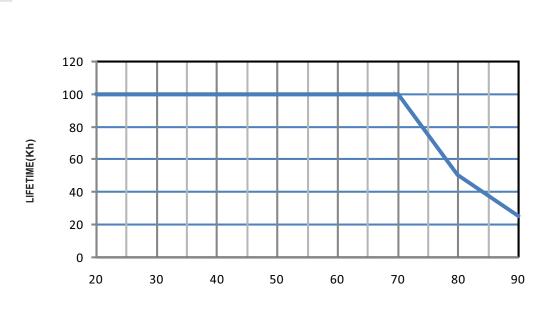
70~100W Constant Voltage + Constant Current LED Driver ELG-100 series





70~100W Constant Voltage + Constant Current LED Driver **ELG-100** series

LIFE TIME



Tcase ( $^\circ\!\mathbb{C}$ )



