

Наличие и актуальные цены на

ELG-100-42A

https://www.mean-well.ru/store/ELG-100-42A/









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-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° 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

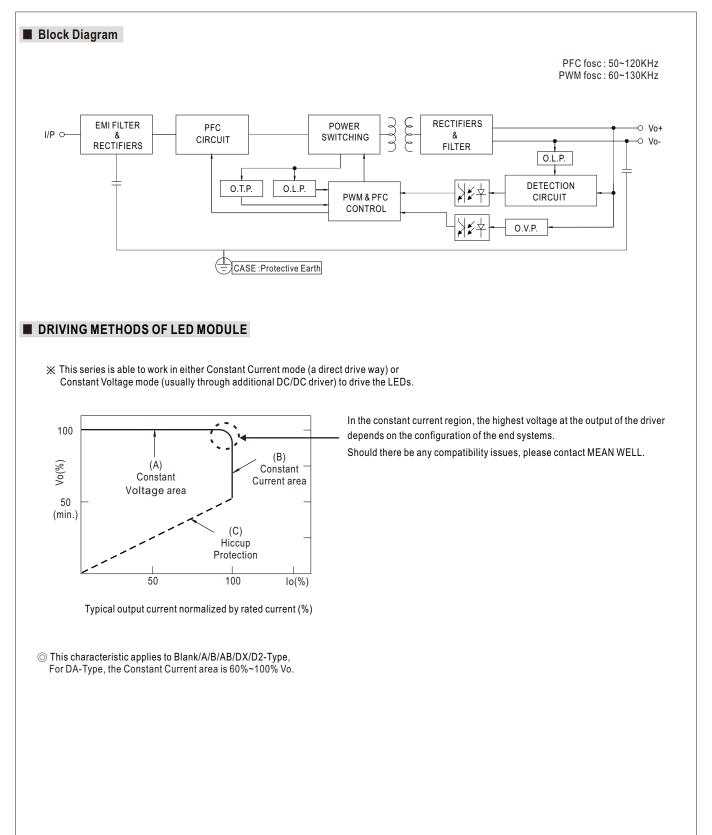
ELG - 100 - 36	
	Input wiring type
	Function mode option 3Y:3-wire input for standard model
	Rated output voltage(24/36/42/48/54V)
	Rated wattage
	———— Series name

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

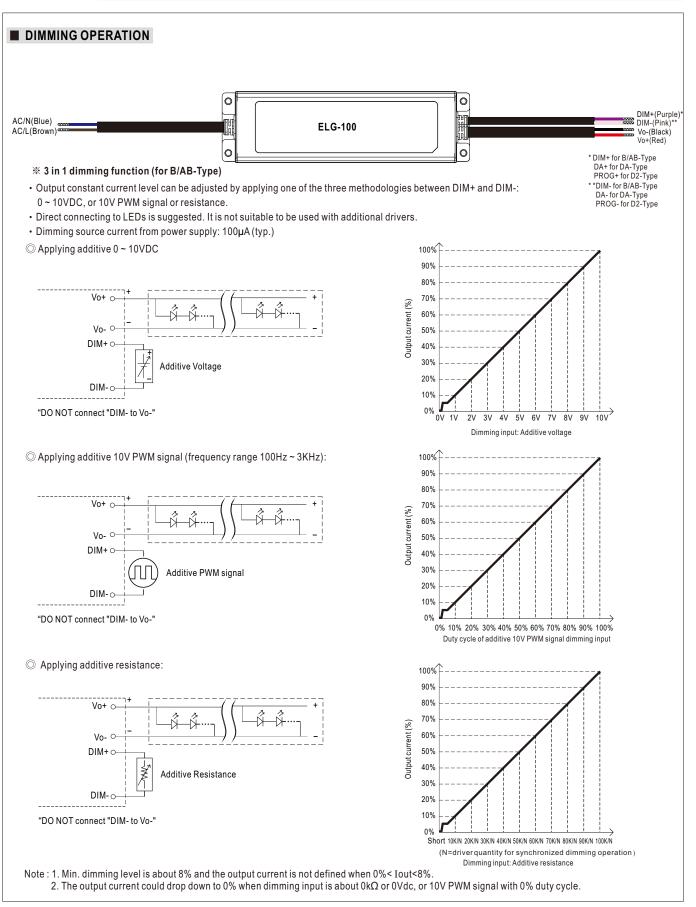


MODEL	ATION	ELG-100-24	ELG-100-36	ELG-100-42	ELG-100-48	ELG-100-54		
	DC VOLTAGE	24V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.2		18 ~ 36V	21~42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	4.0A	2.66A	2.28A	24 40V	1.78A		
	RAILDCORRENT	200VAC ~ 305VAC	2.00A	2.20A	ZA	1.70A		
		96W	95.76W	95.76W	96W	96.12W		
	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				
			7 - 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							
	 Please refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage under rated power delivery. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 							
	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.							
	 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. 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 							
	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.							
 Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 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). 					m(6500ft).			
	11. For any application note and IP							
	https://www.meanwell.com/Uplo	pad/PDF/LED_EN.pdf						
	 D2 models need to be program To fulfill requirements of the late 	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							











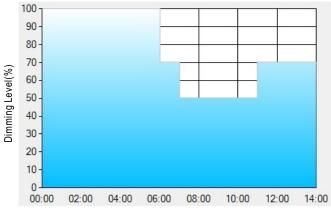
※ DALI Interface (primary side; for DA-Type)

- 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.

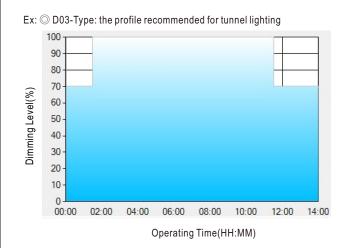
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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:

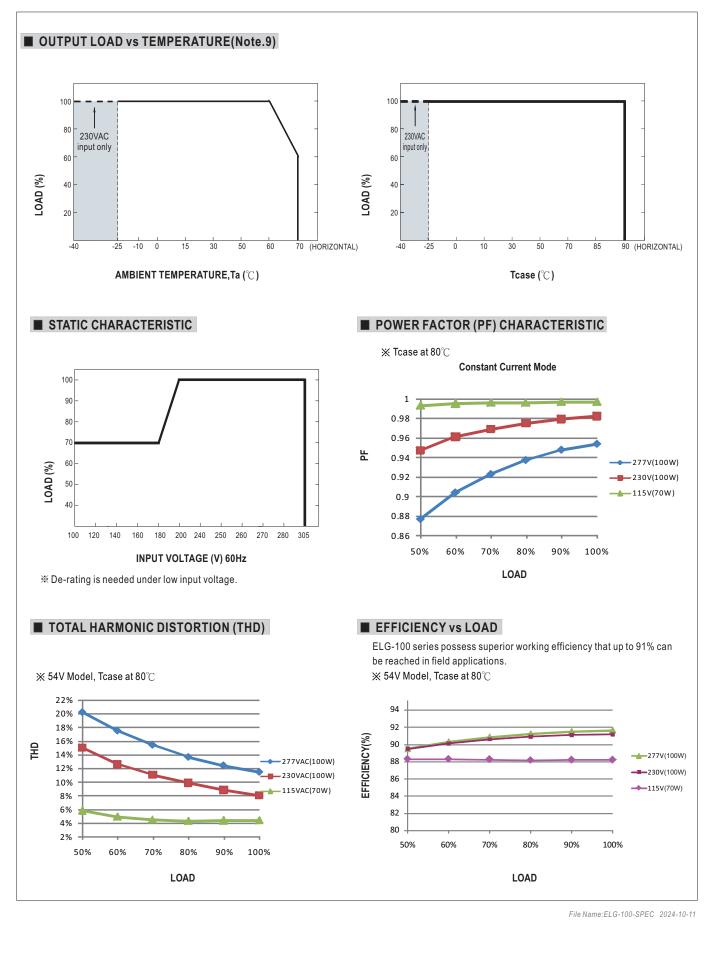
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[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.



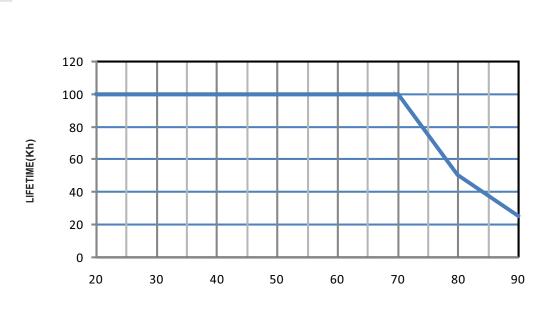
70~100W Constant Voltage + Constant Current LED Driver ELG-100 series





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

LIFE TIME



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



