

Наличие и актуальные цены на

ELGC-300-L-DA

https://www.mean-well.ru/store/ELGC-300-L-DA/









Features

- Full power at 65~100% operation(Constant Power)
- Protection Functions: OCP,SCP,OVP,OTP
- IP67 design for indoor or outdoor installations
- Function options: output adjustable via potentiometer;
 3 in 1 dimming (dim-to-off); DALI-2 dimming
- Typical lifetime>50000 hours and 5 years warranty
- Surge protection with 6KV/4KV
- · Latest safety requirements of IEC61347/GB19510 and UL8750

Applications

- LED bay lighting
- LED stage lighting
- LED flood lighting
- · LED fishing lighting
- LED horticulture lighting
- Stadium lighting
- Type "HL" for use in class I , Division 2

GTIN CODE

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

Description

ELGC-300 series is a 300W LED AC/DC driver featuring the constant power mode and high voltage output. ELGC-300 operates from 100~305VAC and offers models with different rated current ranging between 1300mA and 8000mA. Thanks to the high efficiency up to 94.5%, with the fanless design, the entire series is able to operate for $-40^{\circ}C + 85^{\circ}C$ case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. Moreover the innovative environment-adaptive capability allows this series to reliably light on the LEDs for all kinds of application environments in almost any spots that may install LED luminaires in the world. ELGC-300 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding <u>ELGC</u> - <u>300</u> - <u>L</u> - <u>A</u> Function of Rated outp

Function options
 Rated output current(L/M/H types)
 Rated wattage
 Series name

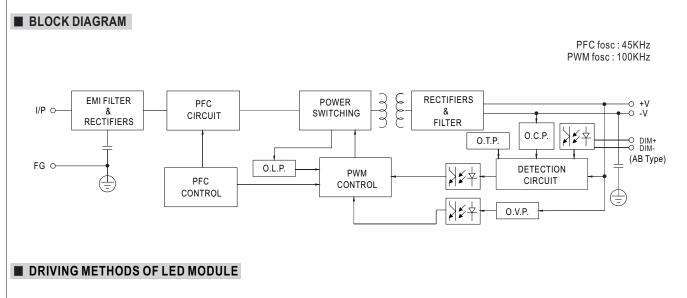
Туре	IP Level	Function	Note		
Blank	IP67	Blank type available by modification	By request		
A	IP67	Output constant power adjustable via built-in lo potentiometer	In Stock		
AB	IP67	Output constant power adjustable via built-in lo potentiometer + 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock		
ADA	IP67	DALI-2 control technology with Io Adjustable via built-in Potentiometer	In Stock		
D2	IP67	Built-in Smart timer dimming and programmable function.	By request		



SPECIFICATION

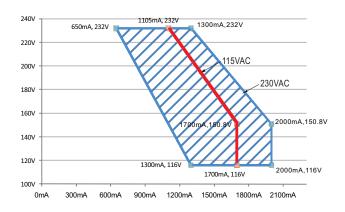
MODEL		ELGC-300-L-	ELGC-300-M-	ELGC-300-H-		
	DEFAULT CURRENT	1400mA	2800mA	5600mA		
OUTPUT	DATED DOWED (200 ~ 305VAC)	301W	301W	301		
	RATED POWER (100 ~ 180VAC)	256W	256W	256W		
	CONSTANT CURRENT REGION	116~232V	58 ~ 116V	29 ~ 58V		
	FULL POWER CURRENT RANGE	1300~2000mA	2600~4000mA	5200~8000mA		
	OPEN CIRCUIT VOLTAGE (max.)	240V	120V	62V		
	CURRENT (200 ~ 305VAC)		1300~4000mA	2600~8000mA		
	ADJ. RANGE (100 ~ 180VAC)		1300~3400mA	2600~6800mA		
	CURRENT RIPPLE	5.0% max. @rated current				
	CURRENT TOLERANCE					
		500ms/230VAC, 500ms/115VAC				
	OLI OI TIME Note.5	100 ~ 305VAC 142VDC ~ 431VDC				
	VOLTAGE RANGE Note.2	(Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)				
	FREQUENCY RANGE					
	FREQUENCI KANGE	47 ~ 63Hz $PF \ge 0.97 / 115VAC, PF \ge 0.95 / 230VAC, PF \ge 0.92 / 277VAC at full load$				
	POWER FACTOR (Typ.)	$PF \ge 0.977115VAC, PF \ge 0.957230VAC, F$ (Please refer to "Power Factor Characterist				
			'			
	TOTAL HARMONIC DISTORTION	THD<10% (@ load≥50% at 115VAC/230VAC ,@load≥75% at 277VAC) Please refer to "TOTAL HARMONIC DISTORTION (THD)" section				
INPUT	EFFICIENCY (Typ.)	94.5%	93.5%	92.5%		
	AC CURRENT (Typ.)	3A / 115VAC 1.6A / 230VAC 1.3	A / 277VAC			
	INRUSH CURRENT(Typ.)	COLD START 45A(twidth=1200//s measured	at 50% Ipeak) at 230VAC; Per NEMA 410			
	MAX. NO. of PSUs on 16A	2 unit(circuit breaker of type B) / 4 units(cir	rouit breaker of type C) at 2201/AC			
	CIRCUIT BREAKER					
	LEAKAGE CURRENT	<0.75mA/277VAC				
	STANDBY POWER	Standby power consumption <0.5W for Al	3 / ADA-Type(Dimming OFF)			
	CONSUMPTION Note.5					
	SHORT CIRCUIT	Constant current limiting, recovers automa		04 701/		
PROTECTION	OVER VOLTAGE	241 ~ 275V Shut down output voltage, re-power on to r	121 ~ 145V	61 ~ 78V		
	OVER TEMPERATURE	Tcase>85°C \pm 5°C,derate power automati	-			
		Tcase=-40 ~ +85°C (Please refer to "OUTF				
	WORKING TEMP.		OT LOAD VS TEMPERATORE Section)			
	MAX. CASE TEMP.	Tcase=+85℃				
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-condensin	g			
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for	72min. each along X, Y, Z axes			
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384; EAC TP TC 004;GB19510.1, GB19510.14; IP67;KC61347-1,KC61347-2-13 approved; Designed refer to AS/NZS 61347 & AS/NZS 60598				
	DALI STANDARDS	Compliance to IEC62386-101,102,207 for ADA Type only				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC 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	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load≧50%); BS EN/EN61000-3-3;GB/T 17743,GB17625.1;KN15				
	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);KN61547				
	NTOF	1637.5K hrs min. Telcordia SR-332 (Bellcore) ;170.1K hrs min. MIL-HDBK-217F (25°C)				
	MIBE					
	MTBF	50000 hrs min				
OTHERS	LIFETIME Note.4					
OTHERS	LIFETIME Note.4 DIMENSION	246*77*39.5mm (L*W*H)				
	LIFETIME Note.4 DIMENSION PACKING	246*77*39.5mm (L*W*H) 1.45Kg;9pcs/14Kg/0.76CUFT	$\sim 10^{\circ}$ c $\sim 10^{\circ}$			
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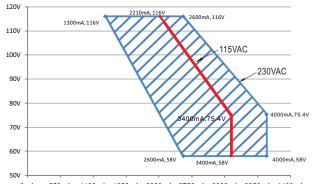


% I-V Operating Area:(Red Line for AC 115V operation)

\odot ELGC-300-L

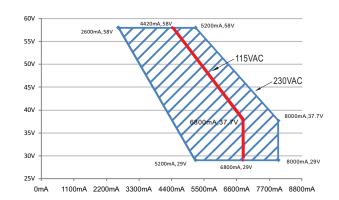


O ELGC-300-M

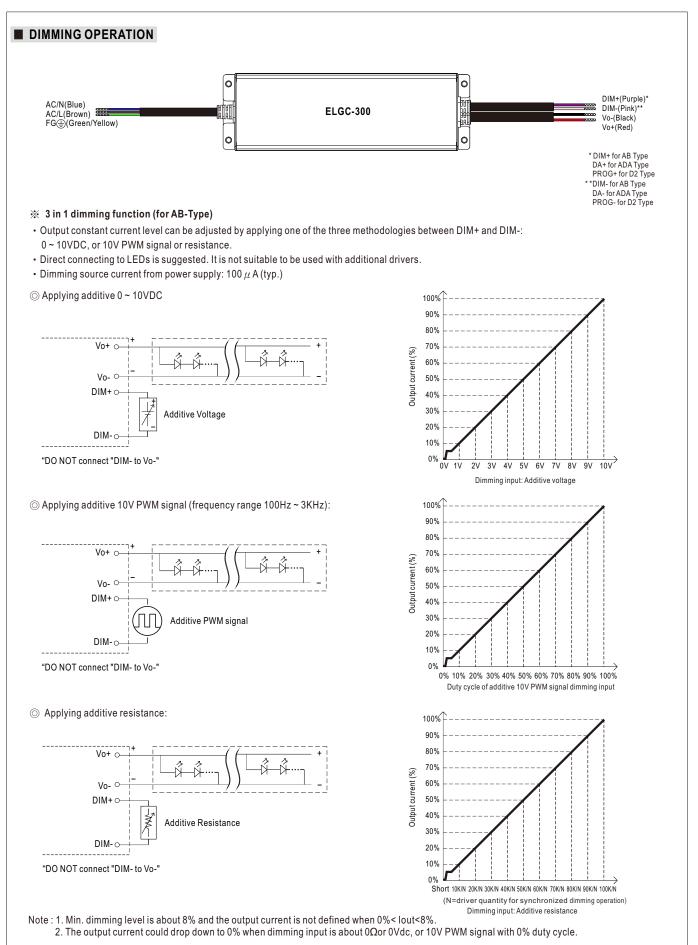


0mA 550mA 1100mA 1650mA 2200mA 2750mA 3300mA 3850mA 4400mA

O ELGC-300-H









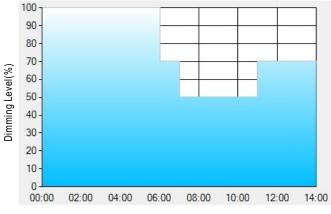
% DALI Interface (primary side; for ADA-Type)

- 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.

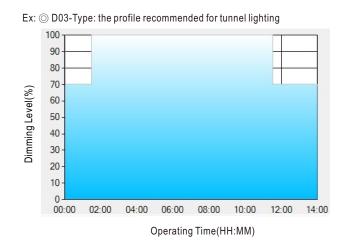
[4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.
 [5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The

constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



300W Constant Power Mode LED Driver

ELGC-300 series



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.

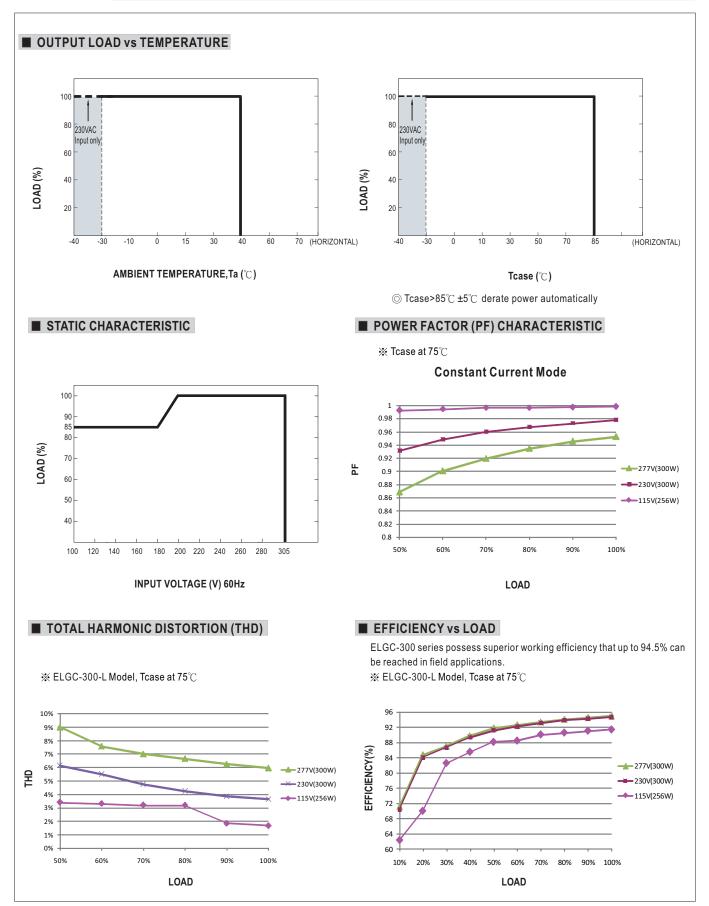
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

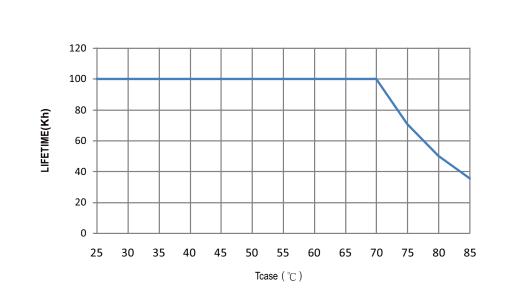




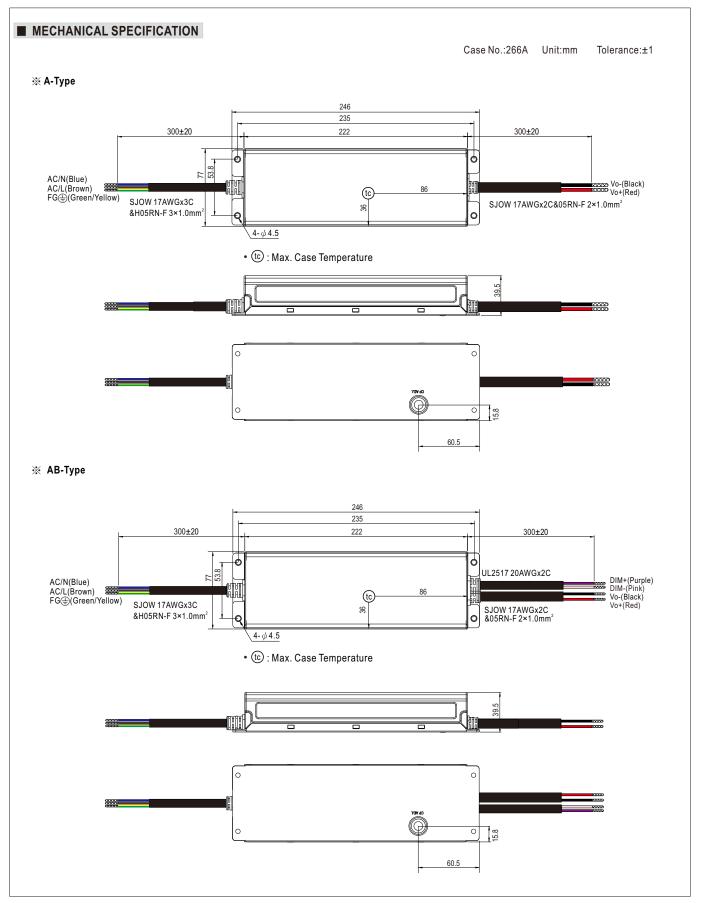
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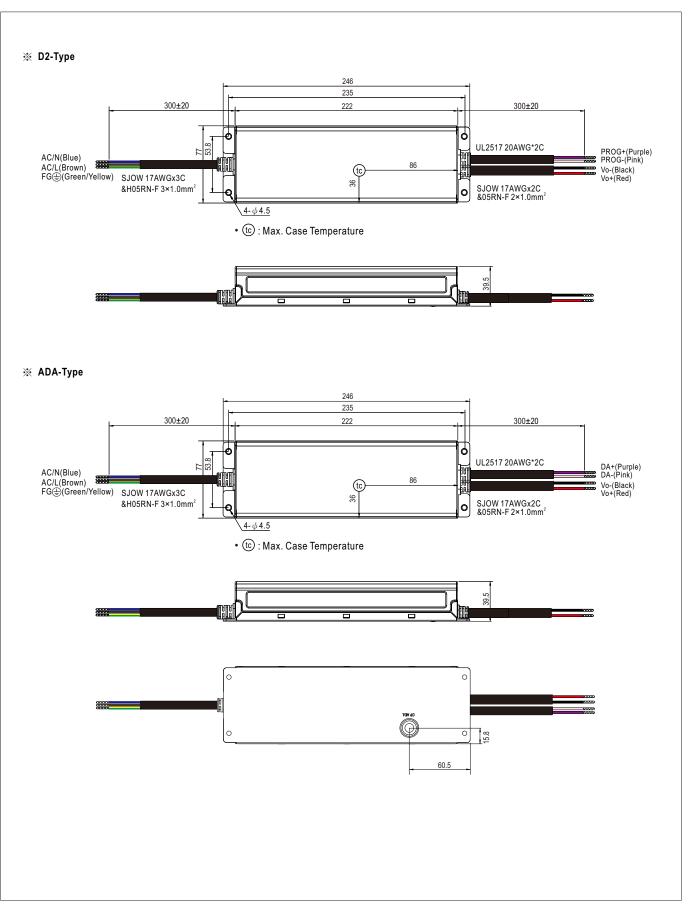
■ LIFE TIME











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