

Наличие и актуальные цены на

ELGC-300-M-AB

https://www.mean-well.ru/store/ELGC-300-M-AB/









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

■ Description

Applications

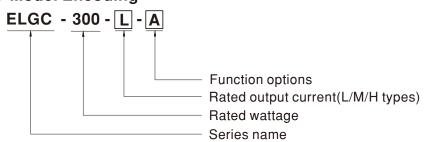
- · LED bay lighting
- · LED stage lighting
- · LED flood lighting
- · LED fishing lighting
- · LED horticulture lighting
- · Stadium lighting
- Type "HL" for use in class I, Division 2

■ GTIN CODE

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

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°C~+85°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



Type	IP Level	Function	Note
Blank	IP67	Blank type available by modification	By request
Α	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)	
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

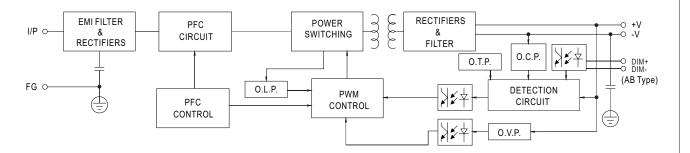
MODEL		ELGC-300-L-	ELGC-300-M-	ELGC-300-H-		
	DEFAULT CURRENT	1400mA	2800mA	5600mA		
	RATED POWER (200 ~ 305VAC)	301W	301W	301		
	(100 ~ 180VAC)	256W	256W	256W		
	CONSTANT CURRENT REGION	116 ~232V	58 ~ 116V	29 ~ 58V		
ОИТРИТ	FULL POWER CURRENT RANGE	1300~2000mA	2600~4000mA	5200~8000mA		
	OPEN CIRCUIT VOLTAGE (max.)	240V	120V	62V		
	, , , , , , , , , , , , , , , , , , ,	650~2000mA	1300~4000mA	2600~8000mA		
	ADJ. RANGE (100 ~ 180VAC)	650~1700mA	1300~3400mA	2600~6800mA		
	CURRENT RIPPLE	5.0% max. @rated current				
	CURRENT TOLERANCE	±5%				
	SET UP TIME Note.9	500ms/230VAC, 500ms/115VAC				
	VOLTAGE RANGE Note.2	100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	DOWER FACTOR (T.)	$PF \ge 0.97 / 115VAC$, $PF \ge 0.95 / 230VAC$, $PF \ge 0.92 / 277VAC$ at full load				
	POWER FACTOR (Typ.)	(Please refer to "Power Factor Characteristic" section)				
	TOTAL HARMONIC DISTORTION	THD<10% (@ load≥50% at 115VAC/230VAC,@load≥75% at 277VAC)				
	TOTAL HARMONIC DISTORTION	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=1200µs measured at 50% Ipeak) at 230VAC; Per NEMA 410				
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	2 unit(circuit breaker of type B) / 4 units(circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA/277VAC				
	STANDBY POWER CONSUMPTION Note.5	Standby power consumption <0.5W for Al	B / ADA-Type(Dimming OFF)			
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed				
		241 ~ 275V	121 ~ 145V	61 ~ 78V		
PROTECTION	OVER VOLTAGE	Shut down output voltage, re-power on to	recovery			
	OVER TEMPERATURE	Tcase>85°C ±5°C, derate power automatically by 6%/°C max				
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD 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 non-condensing				
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for				
	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 d, GB19510.1 d; 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				
CAFETY	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC				
SAFETY &	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				
	MTBF	1637.5K hrs min. Telcordia SR-332 (Bellcore) ;170.1K hrs min. MIL-HDBK-217F (25°C)				
0711550	LIFETIME Note.4					
OTHERS	DIMENSION	246*77*39.5mm (L*W*H)				
	PACKING	1.45Kg;9pcs/14Kg/0.76CUFT				
		1	ut, rated current and 25°C of ambient temp			

- 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 3. 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/EMI_statement_en.pdf)
- 4. This series meets the typical life expectancy >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is 70℃ or less.
- 5. To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently
- 6. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
- 7. 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).
- 8. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED EN.pdf
- 9. Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the set up time will be higher than 0.5 second for DA type.
- 10. RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations.
- 11. Products sourced from the Americas regions may not have the ENEC/BIS/CCC/KC logo. Please contact your MEAN WELL sales for more information.
- 12. For A/AB/ADA type need to consider build in using to comply with Type HL application
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



■ BLOCK DIAGRAM

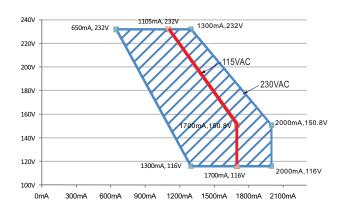
PFC fosc : 45KHz PWM fosc : 100KHz



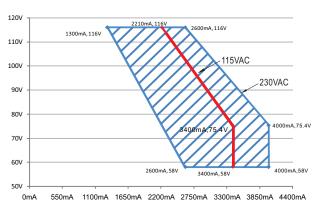
■ DRIVING METHODS OF LED MODULE

※ I−V Operating Area: (Red Line for AC 115V operation)

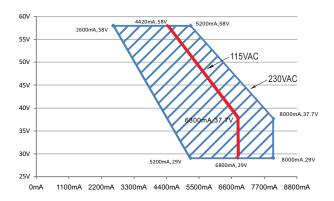
© ELGC-300-L



© ELGC-300-M

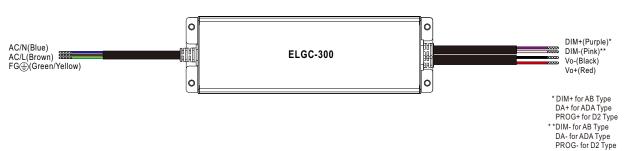


© ELGC-300-H



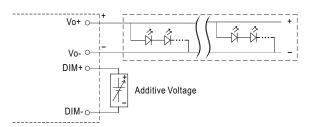


■ DIMMING OPERATION



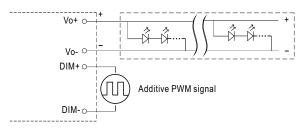
3 in 1 dimming function (for AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100 μ A (typ.)



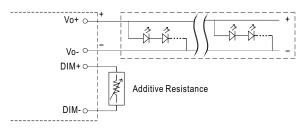
"DO NOT connect "DIM- to Vo-"

Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

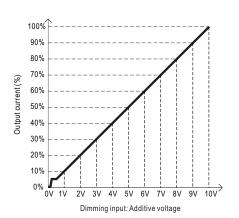


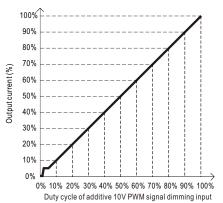
"DO NOT connect "DIM- to Vo-"

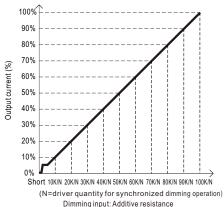
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"







Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < lout < 8%.

2. The output current could drop down to 0% when dimming input is about 0Ωor 0Vdc, or 10V PWM signal with 0% duty cycle.

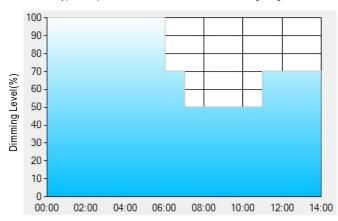
DALI Interface (primary side; for ADA-Type)

- · 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	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

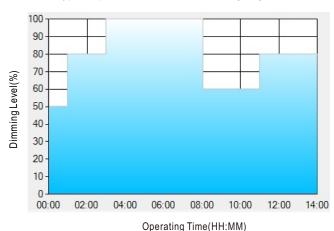
Operating Time(HH:MM)

- **: 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%

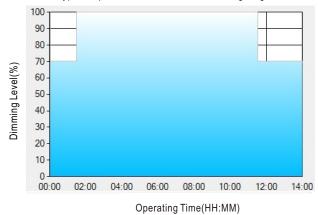
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- **: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

 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%

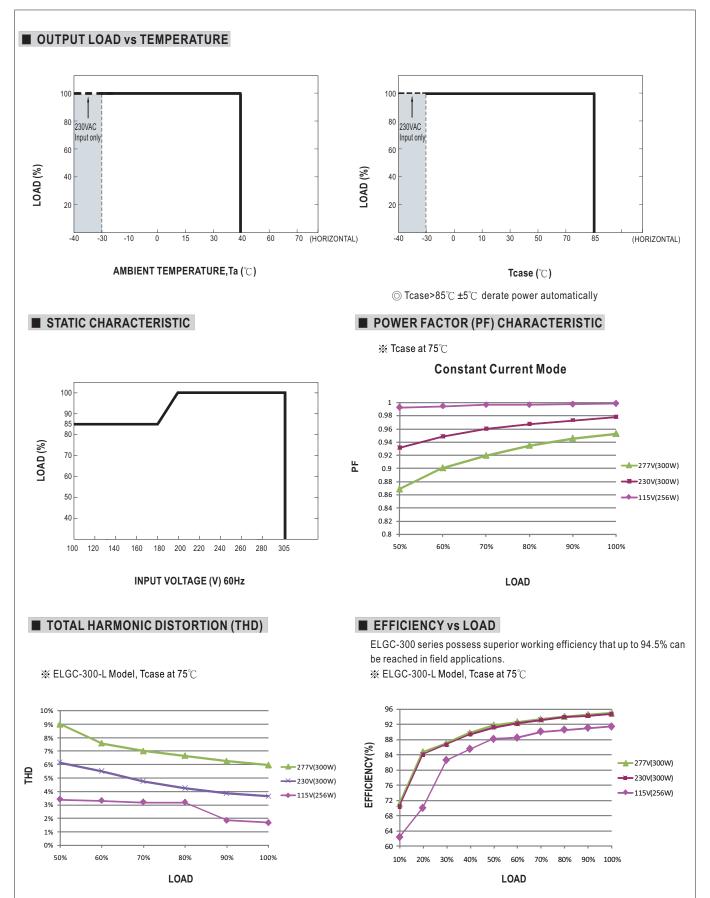
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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 5:00 am, which is 11:00 after the power supply turns on.

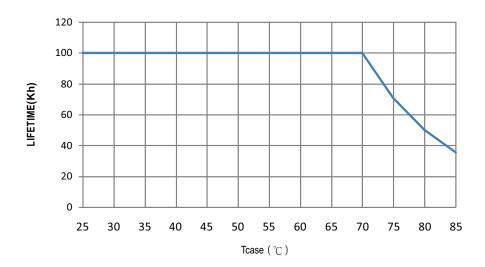
The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



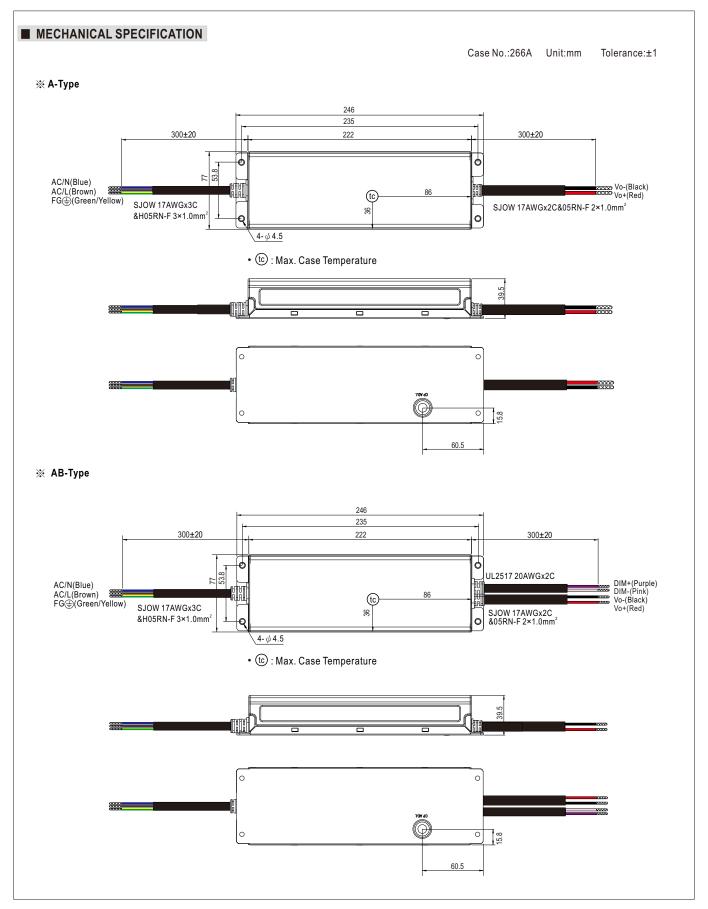




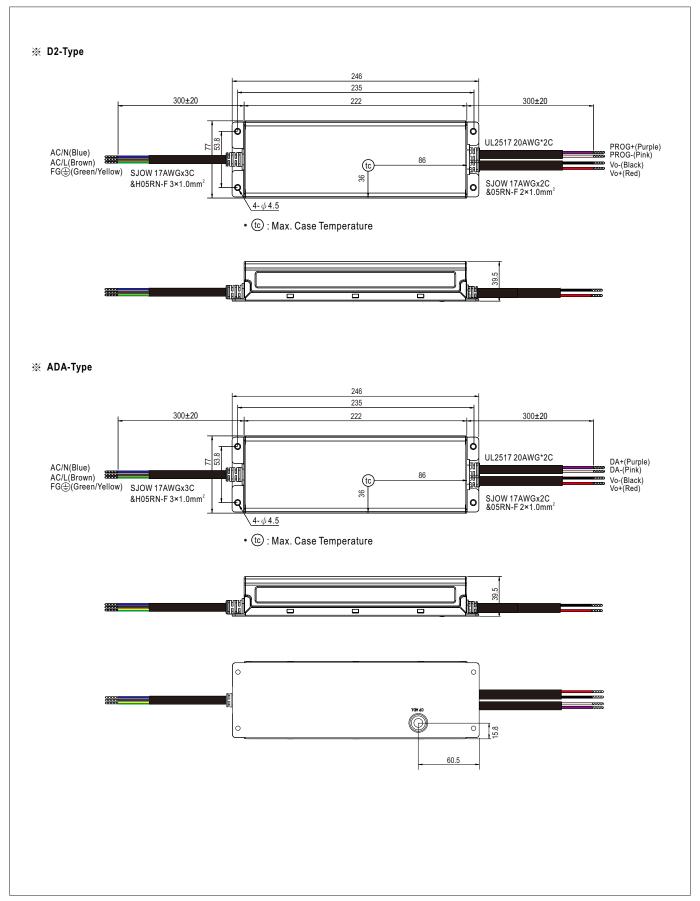
■ LIFE TIME





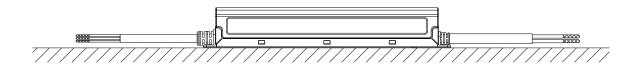








■ Recommend Mounting Direction



■ INSTALLATION MANUAL

Please refer to:http://www.meanwell.com/manual.html