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#### 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

### 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> Funct

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

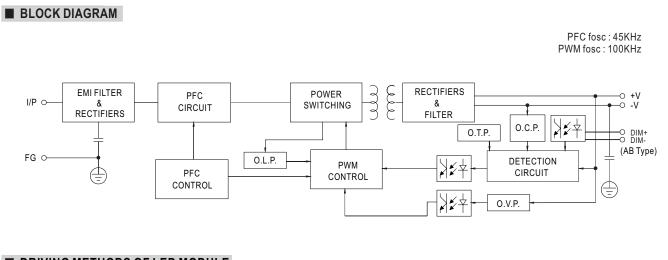
Туре	IP Level	Function	Note
Blank	IP67	Blank type available by modification	By request
A	IP67	Output constant power adjustable via built-in lo potentiometer	In Stock
AB	IP67	Output constant power adjustable via built-in lo potentiometer + 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
ADA	IP67	DALI 2.0 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	
-		(200 ~ 305VAC)		301W	301	
OUTPUT	RATED POWER	(100 ~ 180VAC)	256W	256W	256W	
	CONSTANT CURREI	, ,	116 ~232V	58 ~ 116V	29 ~ 58V	
	FULL POWER CURRENT REGION			2600~4000mA	5200~8000mA	
	OPEN CIRCUIT VOLTAGE (max.)			120V	62V	
		(200 ~ 305VAC)		1300~4000mA	2600~8000mA	
	•••••	(100 ~ 180VAC)		1300~3400mA	2600~6800mA	
	CURRENT RIPP			1300~3400IIIA	2000~0000IIA	
			5.0% max. @rated current			
	CURRENT TOLERANCE		±5%			
	VOLTAGE RANGE Note.2		500ms/230VAC, 500ms/115VAC			
			100 ~ 305VAC 142VDC ~ 431VDC			
ľ			(Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)			
	FREQUENCY RANGE		47 ~ 63Hz			
	POWER FACTOR (Typ.)		PF≧0.97 / 115VAC, PF≧0.95 / 230VAC, P			
			(Please refer to "Power Factor Characterist	,		
	TOTAL HARMONI	C DISTORTION	THD< 10% (@ load ≥ 50% at 115VAC/230	-		
			Please refer to "TOTAL HARMONIC DIST			
	EFFICIENCY (Ty	• /	94.5%	93.5%	92.5%	
	AC CURRENT (1			A / 277VAC		
	INRUSH CURRE	NT(Typ.)	COLD START 45A(twidth=1200µs measured	at 50% Ipeak) at 230VAC; Per NEMA 410		
	MAX. NO. of PS		2 unit(circuit breaker of type B) / 4 units(circuit breaker of type C) at 230VAC			
	CIRCUIT BREAK		2 unition out breaker of type b) / 4 units(circuit breaker of type c) at 250 VAC			
	LEAKAGE CUR	RENT	<0.75mA/277VAC			
	STANDBY POW	/ER	Chandhu navian consumption 20 EW/ for Al			
	CONSUMPTION	Note.5	Standby power consumption <0.5W for AE	3 / ADA-Type(Dimming OFF)		
	SHORT CIRCUIT	Γ	Constant current limiting, recovers automa	atically after fault condition is removed		
			241 ~ 275V	121 ~ 145V	61 ~ 78V	
PROTECTION	OVER VOLTAGE		Shut down output voltage, re-power on to r	recovery	l	
	OVER TEMPERA	ATURE	case>85 $^{\circ}$ C $\pm$ 5 $^{\circ}$ C,derate power automatically by 6%/ $^{\circ}$ C max			
	WORKING TEMP	2	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEN		Tcase=+85°C			
	WORKING HUMIDITY		20 ~ 95% RH non-condensing			
ENVIRONMENT	STORAGE TEMP		-40 ~ +80°C, 10 ~ 95% RH non-condensing			
	TEMP. COEFFIC	-	±0.03%/°C (0~60°C)			
-						
	VIBRATION	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 EN61347-1, EN61347-2-13 independent, EN62384;			
	SAFETY STAND	ARDS	EAC TP TC 004;GB19510.1, GB19510.14; IP67;KC61347-1,KC61347-2-13 approved			
-					iendent, EN62364;	
	DALI STANDAR	DS	Compliance to IEC62386-101,102,207 fc	or ADA Type only	iendent, ENO2304;	
SAFETY &	DALI STANDARI WITHSTAND VO	DS LTAGE	Compliance to IEC62386-101,102,207 fc I/P-O/P:3.75KVAC I/P-FG:2KVAC O	or ADA Type only //P-FG:1.5KVAC	iendent, ENO2384;	
	DALI STANDARI WITHSTAND VO ISOLATION RES	DS LTAGE	Compliance to IEC62386-101,102,207 fc I/P-O/P:3.75KVAC I/P-FG:2KVAC O I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50	or ADA Type only //P-FG:1.5KVAC 00VDC / 25°C/ 70% RH	iendeni, ENO2364;	
	DALI STANDAR WITHSTAND VO ISOLATION RES EMC EMISSION	DS LTAGE	Compliance to IEC62386-101,102,207 fc I/P-O/P:3.75KVAC I/P-FG:2KVAC O I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Compliance to EN55015, EN61000-3-2 Cla	or ADA Type only //P-FG:1.5KVAC 00VDC / 25°C / 70% RH ass C (@ load≧50%); EN61000-3-3;KN15		
	DALI STANDARI WITHSTAND VO ISOLATION RES EMC EMISSION EMC IMMUNITY	DS LTAGE	Compliance to IEC62386-101,102,207 fc I/P-O/P:3.75KVAC I/P-FG:2KVAC O I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Compliance to EN55015, EN61000-3-2 Cla Compliance to EN61000-4-2,3,4,5,6,8,11,	or ADA Type only //P-FG:1.5KVAC 00VDC / 25°C/ 70% RH ass C (@ load≧50%); EN61000-3-3;KN15 EN61547, light industry level (surge immunit		
	DALI STANDARI WITHSTAND VO ISOLATION RES EMC EMISSION EMC IMMUNITY MTBF	DS LTAGE	Compliance to IEC62386-101,102,207 fc I/P-O/P:3.75KVAC I/P-FG:2KVAC O I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Compliance to EN55015, EN61000-3-2 Cla Compliance to EN61000-4-2,3,4,5,6,8,11, 565K hrs min. Telcordia SR-332(Bellcore)	or ADA Type only //P-FG:1.5KVAC 00VDC / 25°C/ 70% RH ass C (@ load≧50%); EN61000-3-3;KN15 EN61547, light industry level (surge immunit		
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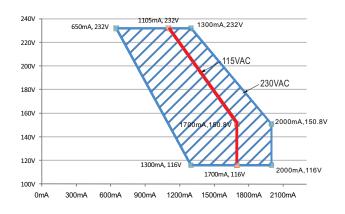




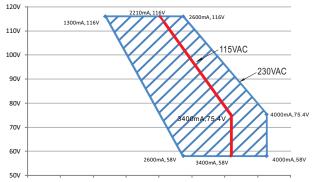
#### DRIVING METHODS OF LED MODULE

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

#### $\bigcirc$ ELGC-300-L

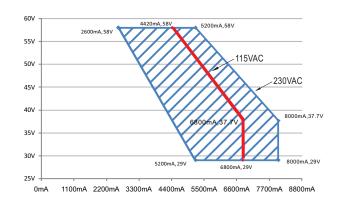


#### O ELGC-300-M

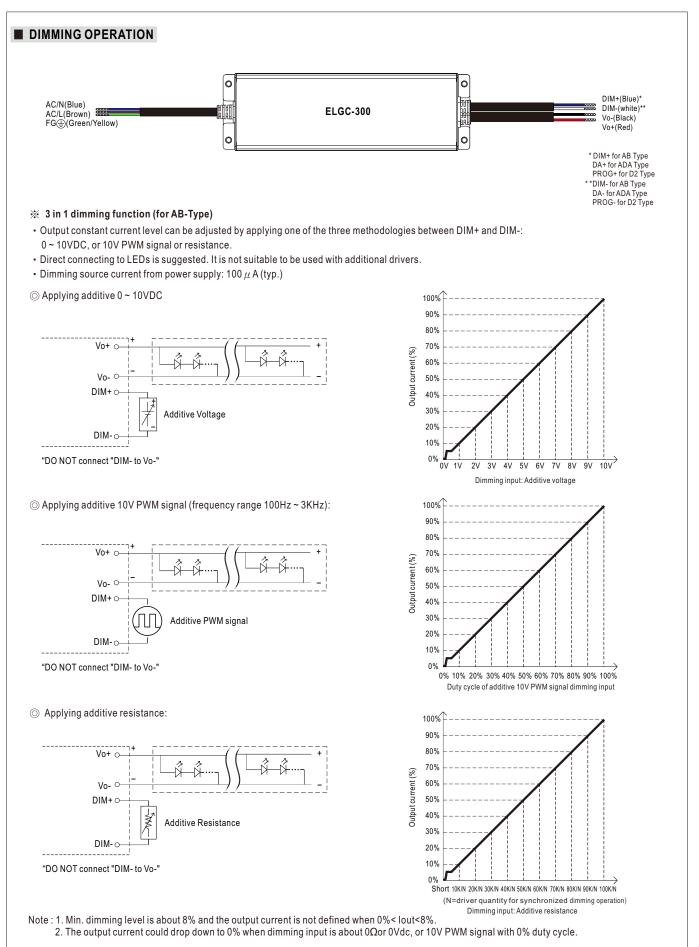


0mA 550mA 1100mA 1650mA 2200mA 2750mA 3300mA 3850mA 4400mA

O ELGC-300-H









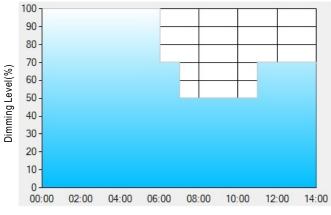
#### % DALI Interface (primary side; for ADA-Type)

- 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.

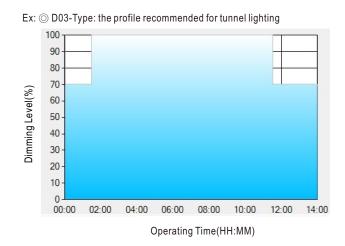
[4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.

[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.

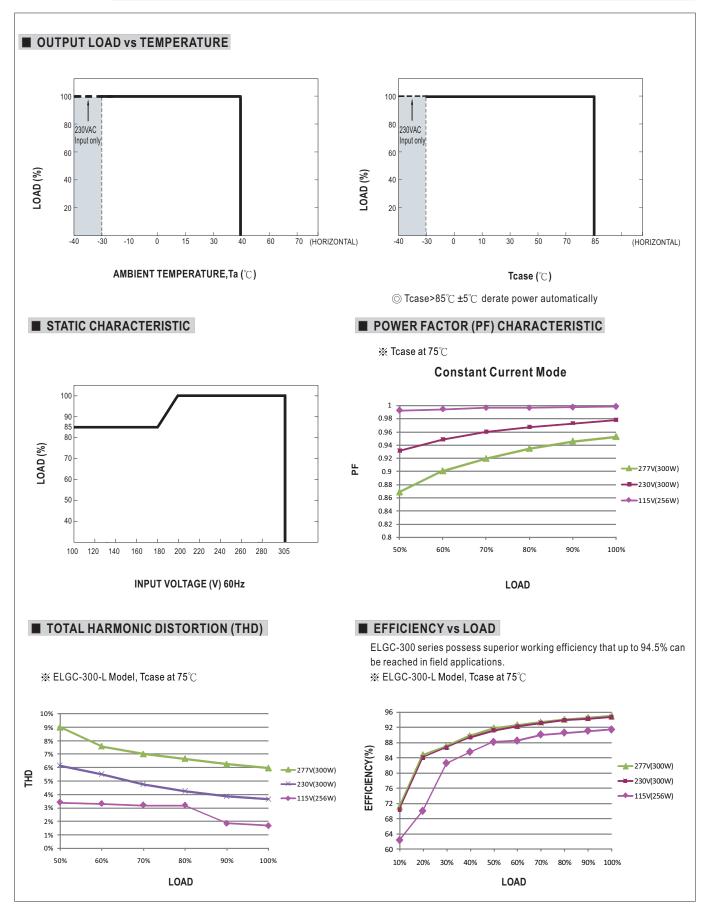
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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.

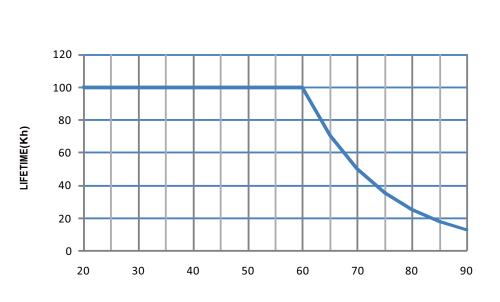




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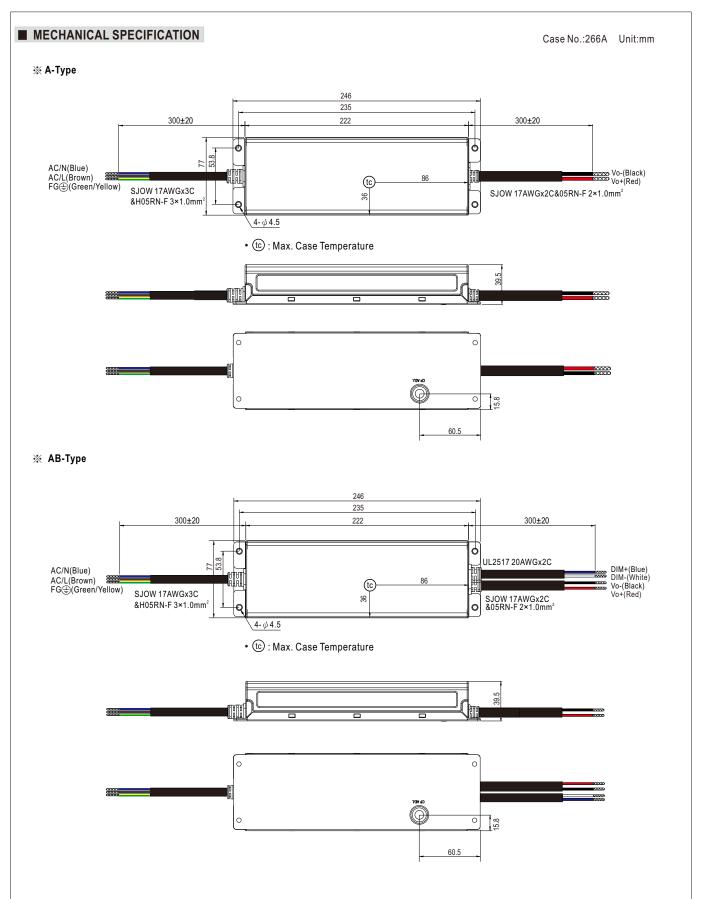


LIFE TIME



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





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