





200-0700

### Features

- Constant Current mode output
- Metal housing design with functional Ground
- Built-in active PFC function
- 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

## Applications

- LED street lighting
- LED harbor lighting
- LED bay lighting
- LED greenhouse lighting
- LED flood lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

### GTIN CODE

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

### Description

ELG-200-C series is a 200W LED AC/DC driver featuring the constant current mode and high voltage output. ELG-200-C operates from 100~305VAC and offers models with different rated current ranging between 700mA and 2100mA. Thanks to the high efficiency up to 93%, 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/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. ELG-200-C 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 - 200 - C700 A

Blank:2-wire input for standard model

- Function options
- Rated output current (700/1050/1400/1750/2100mA)
- Output wattage
- Series name

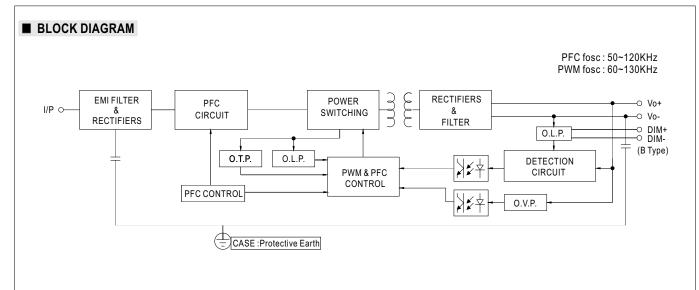
Туре	IP Level	Function	Note
Blank	IP67	lo fixed.	In Stock
A	IP65	lo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal 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



### SPECIFICATION

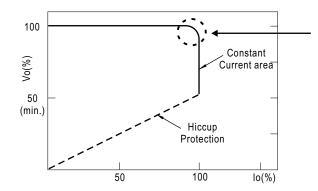
ATED CURRENT ATED POWER ONSTANT CURRENT REGION Note 2 PEN CIRCUIT VOLTAGE(max.) URRENT ADJ. RANGE URRENT RIPPLE URRENT TOLERANCE ET UP TIME Note.4 OLTAGE RANGE Note.3 REQUENCY RANGE OWER FACTOR (Typ.) OTAL HARMONIC DISTORTION FFICIENCY (Typ.) C CURRENT (Typ.) IRUSH CURRENT(Typ.) IAX. NO. OF PSUS ON 16A CIRCUIT BREAKER EAKAGE CURRENT	300V Adjustable for A/AB-T 350 ~ 700mA 5.0% max. @rated cu ±5.0% 800ms/115VAC, 500m 100 ~ 305VAC 1 (Please refer to "STA 47 ~ 63Hz PF ≥ 0.97/115VAC, Pf (Please refer to "POW THD< 20%(@load≥5 (Please refer to "TOT 93% 1.8A / 115VAC 1.0 COLD START 65A(tw	ns/230VAC 42 ~ 431VDC FIC CHARACTERISTIC ER FACTOR (PF) CHA 0%/115VC,230VAC; ( AL HARMONIC DIST 93% A/ 230VAC 1.0A/27	700 ~ 1400mA C" section) 0.92/277VAC@full load RACTERISTIC" section @load≧75%/277VAC) ORTION(THD)" sectior 92%		2100mA 201.6W 151.2W 48 ~ 96V 105V 105V 1050 ~ 2100mA		
ONSTANT CURRENT REGION Note 2 PEN CIRCUIT VOLTAGE (max.) URRENT ADJ. RANGE URRENT RIPPLE URRENT TOLERANCE ET UP TIME Note.4 OLTAGE RANGE Note.3 REQUENCY RANGE OWER FACTOR (Typ.) DTAL HARMONIC DISTORTION FFICIENCY (Typ.) C CURRENT (Typ.) IRUSH CURRENT (Typ.) IAX. No. of PSUs on 16A :IRCUIT BREAKER	200.2W 100VAC ~ 180VAC 150.5W 142 ~ 286V 300V Adjustable for A/AB-T 350 ~ 700mA 5.0% max. @rated cu ±5.0% 800ms/115VAC, 500m 100 ~ 305VAC 1 (Please refer to "STAT 47 ~ 63Hz PF ≥ 0.97/115VAC, PH (Please refer to "POW THD< 20%(@load≥5 (Please refer to "TOT 93% 1.8A / 115VAC 1.0 COLD START 65A(tw	150.15W         95 ~ 190V         200V         ype only (via built-in point)         525 ~ 1050mA         rrent         ns/230VAC         42 ~ 431VDC         FIC CHARACTERISTIC         ER FACTOR (PF) CHA         0%/115VC,230VAC; (CAL HARMONIC DIST)         93%         A/ 230VAC       1.0A/27	149.8W         71 ~ 142V         160V         otentiometer)         700 ~ 1400mA         C" section)         0.92/277VAC@full load         RACTERISTIC" section         @load≧75%/277VAC)         ORTION(THD)" sectior         92%	150.5W 57 ~ 114V 120V 875 ~ 1750mA	151.2W 48 ~ 96V 105V		
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OLTAGE RANGE Note.3 REQUENCY RANGE OWER FACTOR (Typ.) DTAL HARMONIC DISTORTION FFICIENCY (Typ.) C CURRENT (Typ.) IRUSH CURRENT(Typ.) IAX. No. of PSUs on 16A :IRCUIT BREAKER	100 ~ 305VAC 1 (Please refer to "STA 47 ~ 63Hz PF ≥ 0.97/115VAC, Pf (Please refer to "POW THD< 20%(@load≧5 (Please refer to "TOT 93% 1.8A / 115VAC 1.0 COLD START 65A(tw	42 ~ 431VDC FIC CHARACTERISTIC F $\ge$ 0.95/230VAC, PF $\ge$ FR FACTOR (PF) CHA 0%/115VC,230VAC; ( AL HARMONIC DIST 93% A/ 230VAC 1.0A/27	0.92/277VAC@full load RACTERISTIC" section @load≧75%/277VAC) ORTION(THD)" sectior 92%	)			
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OWER FACTOR (Typ.) DTAL HARMONIC DISTORTION FFICIENCY (Typ.) C CURRENT (Typ.) IRUSH CURRENT(Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER	47 ~ 63Hz PF ≥ 0.97/115VAC, Pf (Please refer to "POW THD< 20%(@load≥5 (Please refer to "TOT 93% 1.8A / 115VAC 1.0. COLD START 65A(tw	E≥0.95/230VAC, PF≥ ER FACTOR (PF) CHA 0%/115VC,230VAC; ( AL HARMONIC DIST 93% A/230VAC 1.0A/27	0.92/277VAC@full load RACTERISTIC" section @load≧75%/277VAC) ORTION(THD)" sectior 92%	)			
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DTAL HARMONIC DISTORTION FFICIENCY (Typ.) C CURRENT (Typ.) IRUSH CURRENT(Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER	(Please refer to "POW THD< 20%(@load≧5 (Please refer to "TOT 93% 1.8A / 115VAC 1.0 COLD START 65A(tw	ER FACTOR (PF) CHA 0%/115VC,230VAC; ( AL HARMONIC DIST 93% A/230VAC 1.0A/27	RACTERISTIC <sup>®</sup> section @load≧75%/277VAC) ORTION(THD)" section 92%	)			
FFICIENCY (Typ.) C CURRENT (Typ.) IRUSH CURRENT(Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER	THD< 20%(@load≧5           (Please refer to "TOT           93%           1.8A / 115VAC         1.0           COLD START 65A(tw)	0%/115VC,230VAC; ( AL HARMONIC DIST 93% A/230VAC 1.0A/27	@load≧75%/277VAC) ORTION(THD)" sectior 92%	)			
FFICIENCY (Typ.) C CURRENT (Typ.) IRUSH CURRENT(Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER	(Please refer to "TOT 93% 1.8A / 115VAC 1.0. COLD START 65A(tw	AL HARMONIC DIST 93% A / 230VAC 1.0A/27	ORTION(THD)" section	,			
C CURRENT (Typ.) IRUSH CURRENT(Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER	93% 1.8A / 115VAC 1.0. COLD START 65A(tw	93% A / 230VAC 1.0A/27	92%	,			
C CURRENT (Typ.) IRUSH CURRENT(Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER	1.8A / 115VAC 1.0. COLD START 65A(tw	A/230VAC 1.0A/27		92%	0.00/		
IRUSH CURRENT <sub>(Typ.)</sub> IAX. No. of PSUs on 16A IRCUIT BREAKER	COLD START 65A(tw				92%		
IAX. No. of PSUs on 16A RCUIT BREAKER		udth-680 magazired		-			
IRCUIT BREAKER	2 units (circuit breake	COLD START 65A(twidth=680µs measured at 50% Ipeak)/230VAC; Per NEMA 410					
		2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC					
FAKAGE CURRENT							
	<0.75mA / 277VAC						
O LOAD / STANDBY	No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA-Type						
OWER CONSUMPTION							
HORT CIRCUIT	Hiccup mode, recove	rs automatically after fa	ault condition is removed	ł			
	315~370V	205~250V	160~180V	125~150V	105~130V		
VER VOLTAGE	Shut down o/p voltage, re-power on to recover						
VER TEMPERATURE	Shut down o/p voltage, re-power on to recover						
ORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
IAX. CASE TEMP.	Tcase=+85°C						
	20 ~ 95% RH non-condensing						
TORAGE TEMP., HUMIDITY							
EMP. COEFFICIENT	±0.03%°C (0 ~ 60°C)						
IBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
AFETY STANDARDS		JL8750(type"HL"), CSA C22.2 No. 250.13-12;BS EN/EN/AS/NZS 61347-1,BS EN/EN/AS/NZS 61347-2-13 ndependent, BS EN/EN62384;GB19510.14,GB19510.1;EAC TP TC 004;BIS IS15885(for 700A only);					
	Independent, BS EN/EN62384;GB19510.14,GB19510.1;EAC TP TC 004;BIS IS15885(for 700A only); IP65 or IP67;KC61347-1,KC61347-2-13 approved Compliance to IEC62386-101,102,(207 by request) for DA Type only						
ALI STANDARDS							
/ITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC						
	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 50%) ; BS EN/EN61000-3-3; GB/T 17743,						
MC EMISSION	GB17625.1; EAC TP	TC 020; KC KN15, KN	61547				
	Compliance to BS EN/I	EN61000-4-2,3,4,5,6,8,1	11; BS EN/EN61547, light	industry level(surge imm	unity:Line-Earth:6KV,		
	Line-Line:4KV);EAC TP TC 020; KC KN15, KN61547						
ITBF	2728.6K hrs min. Telcordia SR-332 (Bellcore) ;217.6K hrs min. MIL-HDBK-217F (25°C)						
IMENSION		,					
ACKING	1.22Kg; 12pcs /15.2kg / 0.72CUFT						
<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>Length of set up time is measured at first cold start. Turning ON/OFF the power supply 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 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)</li> <li>This series meets the typical life expectancy of &gt;50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 85°C or less.</li> <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(6500)</li> <li>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</li> <li>To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.</li> </ol>							
MC MC ITE IM AC	LATION RESISTANCE EMISSION IMMUNITY BF ENSION KING I parameters NOT special ease refer to "DRIVING Me- erating may be needed u ength of set up time is me the driver is considered as omplete installation, the fir is available on https://www nis series meets the typica ease refer to the warranty	LATION RESISTANCE       I/P-O/P, I/P-FG, O/P.         EMISSION       Compliance to BS EN         GB17625.1; EAC TP       Compliance to BS EN/E         IMMUNITY       Compliance to BS EN/E         IMMUNITY       Compliance to BS EN/E         Immunity       2728.6K hrs min.         ENSION       244*71*37.5 mm (L*V         KING       1.22Kg; 12pcs /15.2kg         I parameters NOT specially mentioned are measure         ease refer to "DRIVING METHODS OF LED MOD         e-rating may be needed under low input voltages. F         ength of set up time is measured at first cold start.         ne driver is considered as a component that will be         omplies inseries meets the typical life expectancy of >50.0C         is series meets the typical life expectancy of >50.7/1000m w         or any application note and IP water proof function         tps://www.meanwell.com//Upload/PDF/LED_EN.pdf         fo fulfill requirements of the latest ErP regulation for	LATION RESISTANCE         I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500           EMISSION         Compliance to BS EN/EN55015,BS EN/EN6 GB17625.1; EAC TP TC 020; KC KN15,KN           EMINUNITY         Compliance to BS EN/EN61000-4-2,3,4,5,6,8,7           Line-Line:4KV);EAC TP TC 020; KC KN15,KN           Compliance to BS EN/EN61000-4-2,3,4,5,6,8,7           Line-Line:4KV);EAC TP TC 020; KC KN15,KN           SF         2728.6K hrs min.           Telcordia SR-332 (Belld ENSION         244*71*37.5 mm (L*W*H)           KING         1.22Kg; 12pcs /15.2kg / 0.72CUFT           I parameters NOT specially mentioned are measured at 230VAC input, rate lease refer to "DRIVING METHODS OF LED MODULE".           e-rating may be needed under low input voltages. Please refer to "STATIC of ength of set up time is measured at first cold start. Turning ON/OFF the pown e driver is considered as a component that will be operated in combination proplete installation, the final equipment manufacturers must re-qualify EMC is available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pr is series meets the typical life expectancy of >50,000 hours of operation we ease refer to the warranty statement on MEAN WELL's website at http://ww ne ambient temperature derating of 3.5°C/1000m with fanless models and co or any application note and IP water proof function installation caution, pleas tps://www.meanwell.com/Upload/PDF/LED_EN.pdf fo fulfil requirements of the latest ErP regulation for lighting fixtures, this LE connected to the mains.	LATION RESISTANCE       I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH         EMISSION       Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@loa GB17625.1; EAC TP TC 020; KC KN15, KN61547         EIMMUNITY       Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light Line-Line:4KV);EAC TP TC 020; KC KN15, KN61547         SF       2728.6K hrs min.         Telcordia SR-332 (Bellcore) ;217.6K hrs min.         ENSION       244*71*37.5 mm (L*W*H)         EXKING       1.22Kg; 12pcs /15.2kg / 0.72CUFT         I parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of aml lease refer to "DRIVING METHODS OF LED MODULE".         e-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sectic angth of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to inc omplete installation, the final equipment that will be operated in combination with final equipment. Sinc proplete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete is available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)         nis series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) lease refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com/Upload/PDF/LED_EN.pdf         for fulfil requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only b connected to the mains.	LATION RESISTANCE       I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH         EMISSION       Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 50%) ; BS EN/EN6 GB17625.1; EAC TP TC 020; KC KN15, KN61547         CIMMUNITY       Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level(surge imm Line-Line:4KV);EAC TP TC 020; KC KN15, KN61547         SF       2728.6K hrs min.       Telcordia SR-332 (Bellcore) ;217.6K hrs min.       MIL-HDBK-217F (25° ENSION         EKING       1.22Kg; 12pcs /15.2kg / 0.72CUFT         I parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.         ease refer to "DRIVING METHODS OF LED MODULE".         e-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.         ength of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.         re driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will omplete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.         s available on https://www.meanwell.com//Upload/PDF/EM_statement_en.pdf)         nis series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), ease refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com         ne ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/		





### ■ DRIVING METHODS OF LED MODULE

 $\%\,$  This series works in constant current mode to directly drive the LEDs.

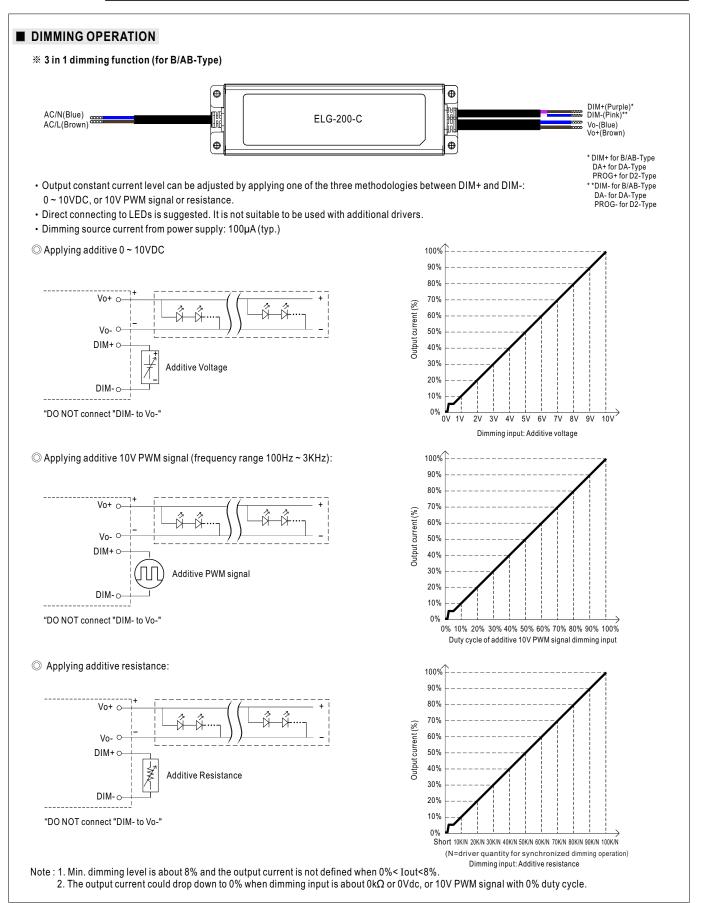


Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.







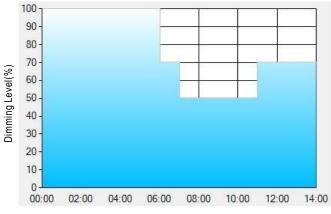
#### ※ DALI Interface (primary side; for DA-Type)

- · 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:

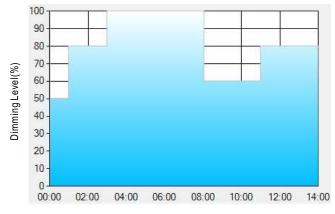
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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	Τ5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

Operating Time(HH:MM)

- \*\*: 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.

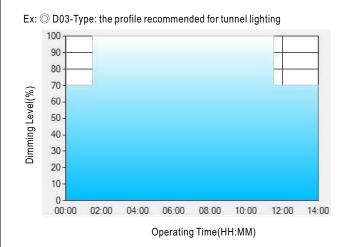
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

- [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.



## ELG-200-C 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.

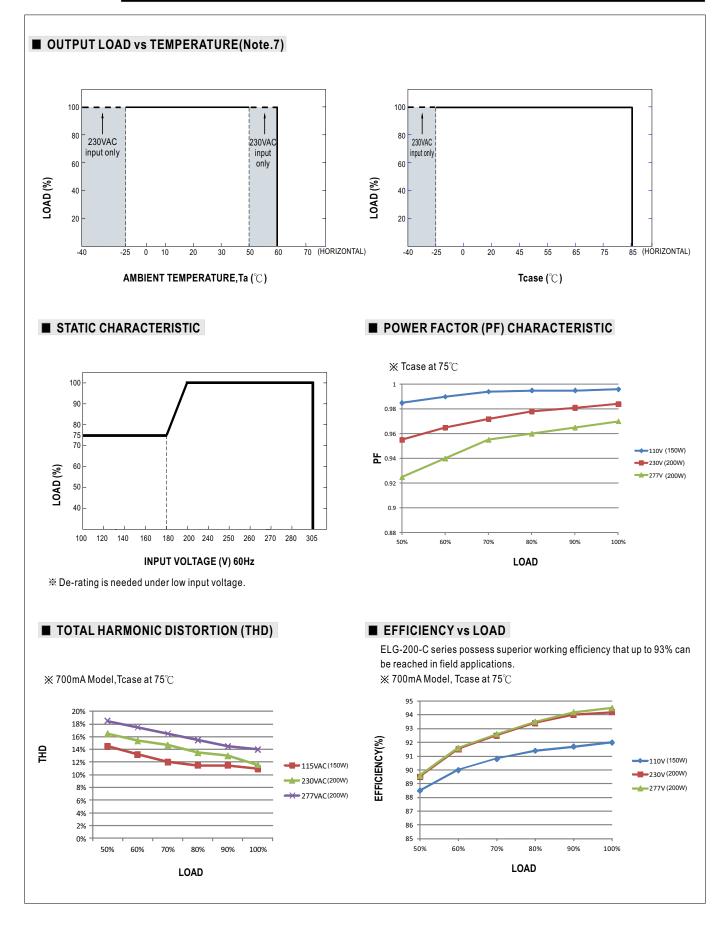
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

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

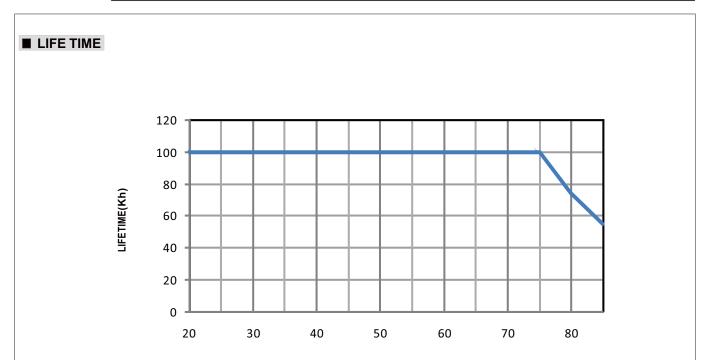
[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.

[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.









Tcase (°C)



### MECHANICAL SPECIFICATION

