





Features

- · Constant Voltage + Constant Current mode output
- Metal housing design
- 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

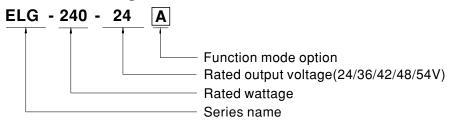
■ Applications

- · LED street lighting
- · LED architectural lighting
- · LED bay lighting
- LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

■ Description

ELG-240 series is a 240W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-240 operates from $100{\sim}305$ VAC and offers models with different rated voltage ranging between 24V and 54V. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for $-40\,^{\circ}\mathrm{C} \sim +90\,^{\circ}\mathrm{C}$ 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-240 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system

■ Model Encoding



Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed.	In Stock
Α	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
DA	IP67	DALI control technology.	Announce Q3'16
Dx	IP67	Built-in Smart timer dimming function by user request.	Announce Q3'16
D2	IP67	Built-in Smart timer dimming and programmable function.	A nnounce Q3'16



240W Constant Voltage + Constant Current LED Driver

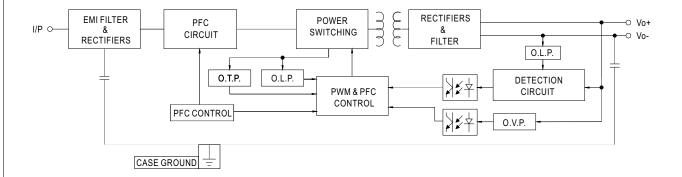
ELG-240 series

SPECIFICATION

T REGION Note.2 T Note.5 (max.) Note.3 ANGE ANGE ANCE Note.4 ON ON E Note.6 Typ.) E Note.5	10A 240W 200mVp-p Adjustable for A-Type 22.4 ~ 25.6V Adjustable for A-Type 5 ~ 10A ±2.0% ±0.5% 500ms, 100ms/230VA 10ms/ 230VAC 10ms, 100 ~ 305VAC 1. (Please refer to "STA" 47 ~ 63Hz PF ≥ 0.97/115VAC, PF (Please refer to "POW THD< 20%(@load≥5	42 ~ 431VDC TIC CHARACTERISTIC" s E≥0.95/230VAC, PF≥0.93 ER FACTOR (PF) CHARAC	39 ~ 45V meter) 2.86 ~ 5.71A ±2.0% ±0.5% ±0.5% /AC	48V 24 ~ 48V 5.0A 240W 250mVp-p 44.8 ~ 51.2V 2.5 ~ 5A ±2.0% ±0.5%	54V 27 ~ 54V 4.45A 240.3W 350mVp-p 50 ~ 57V 2.23 ~ 4.45A ±2.0% ±0.5%					
T Note.5 (max.) Note.3 ANGE ANGE ANCE Note.4 DN ON E Note.6 (yp.) E Note.5	10A 240W 3 200mVp-p Adjustable for A-Type 22.4 ~ 25.6V Adjustable for A-Type 5 ~ 10A ±2.0% ±0.5% 500ms, 100ms/230VA 10ms/ 230VAC 10ms/ 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")	6.66A 239.76W 250mVp-p only (via built-in potention 33.5 ~ 38.5V only (via built-in potention 3.33 ~ 6.66A ±2.0% ±0.5% ±0.5% C, 1000ms, 100ms/115V /115VAC 42 ~ 431VDC TIC CHARACTERISTIC" s E≥0.95/230VAC, PF≥0.93 ER FACTOR (PF) CHARAC	5.71A 239.82W 250mVp-p meter) 39 ~ 45V meter) 2.86 ~ 5.71A ±2.0% ±0.5% ±0.5% /AC	5.0A 240W 250mVp-p 44.8 ~ 51.2V 2.5 ~ 5A ±2.0% ±0.5%	4.45A 240.3W 350mVp-p 50 ~ 57V 2.23 ~ 4.45A ±2.0% ±0.5%					
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(max.) Note.3 ANGE ANGE ANCE Note.4 DN ON E Note.6 Typ.) E Note.5 NGE	3 200mVp-p Adjustable for A-Type 22.4 ~ 25.6V Adjustable for A-Type 5 ~ 10A ±2.0% ±0.5% ±0.5% 500ms, 100ms/230VA 10ms/ 230VAC 10ms/ 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")	250mVp-p only (via built-in potention 33.5 ~ 38.5V only (via built-in potention 3.33 ~ 6.66A ±2.0% ±0.5% ±0.5% cC, 1000ms, 100ms/115V / 115VAC 42 ~ 431VDC TIC CHARACTERISTIC" s E≥0.95/230VAC, PF≥0.93	250mVp-p 39 ~ 45V meter) 2.86 ~ 5.71A ±2.0% ±0.5% ±0.5% 40	250mVp-p 44.8 ~ 51.2V 2.5 ~ 5A ±2.0% ±0.5%	350mVp-p 50 ~ 57V 2.23 ~ 4.45A ±2.0% ±0.5%					
ANGE ANGE ANCE Note.4 ON ON E Note.6 Typ.) E Note.5 NGE	Adjustable for A-Type 22.4 ~ 25.6V Adjustable for A-Type 5 ~ 10A ±2.0% ±0.5% ±0.5% 500ms, 100ms/230VA 10ms/ 230VAC 10ms 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	only (via built-in potention 33.5 ~ 38.5V only (via built-in potention 3.33 ~ 6.66A ±2.0% ±0.5% ±0.5% AC, 1000ms, 100ms/115V / 115VAC 42 ~ 431VDC TIC CHARACTERISTIC" s E≥0.95/230VAC, PF≥0.92 ER FACTOR (PF) CHARAC	meter) 39 ~ 45V 2.86 ~ 5.71A ±2.0% ±0.5% ±0.5% //AC section)	44.8 ~ 51.2V 2.5 ~ 5A ±2.0% ±0.5%	50 ~ 57V 2.23 ~ 4.45A ±2.0% ±0.5%					
ANGE Note.4 ON ON E Note.6 Yp.) E Note.5 NGE	22.4 ~ 25.6V Adjustable for A-Type 5 ~ 10A ±2.0% ±0.5% ±0.5% 500ms, 100ms/230VAC 10ms/ 230VAC 10ms/ (Please refer to "STA' 47 ~ 63Hz PF ≥ 0.97/115VAC, PF (Please refer to "POW THD< 20%(@load≥5 (Please refer to "TOT	33.5 ~ 38.5V only (via built-in potention 3.33 ~ 6.66A ±2.0% ±0.5% ±0.5% C, 1000ms, 100ms/115V / 115VAC 42 ~ 431VDC TIC CHARACTERISTIC" s E≥0.95/230VAC, PF≥0.92 ER FACTOR (PF) CHARAC	39 ~ 45V meter) 2.86 ~ 5.71A ±2.0% ±0.5% ±0.5% /AC	2.5 ~ 5A ±2.0% ±0.5%	2.23 ~ 4.45A ±2.0% ±0.5%					
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ANCE Note.4 ON E Note.6 Typ.) E Note.5 NGE	5 ~ 10A ±2.0% ±0.5% ±0.5% 500ms, 100ms/230VA 10ms/ 230VAC 10ms 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	3.33 ~ 6.66A ±2.0% ±0.5% ±0.5% ∴C, 1000ms, 100ms/115V / 115VAC 42 ~ 431VDC TIC CHARACTERISTIC" s E≥0.95/230VAC, PF≥0.93 ER FACTOR (PF) CHARAC	2.86 ~ 5.71A ±2.0% ±0.5% ±0.5% /AC	±2.0% ±0.5%	±2.0% ±0.5%					
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ON ON E Note.6 Typ.) E Note.5 NGE	±0.5% ±0.5% 500ms, 100ms/230VA 10ms/ 230VAC 10ms/ 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	±0.5% ±0.5% AC, 1000ms, 100ms/115V / 115VAC 42 ~ 431VDC TIC CHARACTERISTIC" s E≥0.95/230VAC, PF≥0.93 ER FACTOR (PF) CHARAC	±0.5% ±0.5% /AC section)	±0.5%	±0.5%					
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E Note.6 Typ.) E Note.5 NGE DISTORTION	500ms, 100ms/230VA 10ms/ 230VAC 10ms 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	AC, 1000ms, 100ms/115V / 115VAC 42 ~ 431VDC TIC CHARACTERISTIC" s E≥0.95/230VAC, PF≥0.92 ER FACTOR (PF) CHARAC	ection)	±0.5%	±0.5%					
E Note.6 Typ.) E Note.5 NGE DISTORTION	10ms/ 230VAC 10ms 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	/ 115VAC 42 ~ 431VDC TIC CHARACTERISTIC" s E ≥ 0.95/230VAC, PF ≥ 0.93 ER FACTOR (PF) CHARAC	ection) 2/277VAC@full load		,					
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E Note.5 NGE DISTORTION .)	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	42 ~ 431VDC TIC CHARACTERISTIC" s E≥0.95/230VAC, PF≥0.93 ER FACTOR (PF) CHARAC	2/277VAC@full load							
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DISTORTION	PF ≥ 0.97/115VAC, PF (Please refer to "POW THD< 20%(@load≥5 (Please refer to "TOT	ER FACTOR (PF) CHARAC								
ISTORTION	(Please refer to "POW THD< 20%(@load≧5 (Please refer to "TOT	ER FACTOR (PF) CHARAC								
ISTORTION	THD< 20%(@load≧5 (Please refer to "TOT	. ,	CIEKIOTIC SECTION)	PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
).)	(Please refer to "TOT	0%/115VC,230VAC; @lo	· · · · · · · · · · · · · · · · · · ·							
).)	<u> </u>		THD< 20%(@load≥50%/115VC,230VAC; @load≥75%/277VAC)							
	92%	TAL HARMONIC DISTOR	TION(THD)" section)							
		92%	92.5%	93%	93%					
IT(Typ)	2.2A / 115VAC 1.5	A / 230VAC 1.2A/277V								
	COLD START 60A(twidth=510µs measured at 50% Ipeak) at 230VAC; Per NEMA 410									
s on 16A	4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC									
ER Ent	<0.75mA / 277VAC	y _F : = /. 1 2 (3110)		·						
		motion of EMIsa Diamit	//Dv/D Time							
)BY PTION Note.		mption <0.5W for Blank / A Imption <0.5W for B / DA-1	• •							
	95 ~ 108%									
	Constant current limiting, recovers automatically after fault condition is removed									
	Hiccup mode, recovers automatically after fault condition is removed									
	27 ~ 34V			54 001/	00 071/					
OVER VOLTAGE		42 ~ 49V	47 ~ 54V	54 ~ 63V	60 ~ 67V					
	Shut down output voltage, re-power on to recover									
URE	· ·	tage, re-power on to reco								
	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)									
Р.	Tcase=+90℃									
ITY	20 ~ 95% RH non-condensing									
, HUMIDITY	-40 ~ +90°C, 10 ~ 95% RH									
ENT	±0.03%/°C (0~50°C)									
	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384;									
RDS	1			11-2-13 independent, EN62	304;					
	GB19510.14,GB19510.1; IP65 or IP67 approved									
S	Compiy with IEC62386-101,102,207 for DA-Type only									
TAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC									
STANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
	<u> </u>)-3-3;GB17625.1.GB17743						
	· ·		, ,							
		, ,	, 200.0MIISHIII. WIL	110011-2111 (200)						
	,									
 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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. No load/standby power consumption is specified for 230VAC input. 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. 										
	2. Please refer to "DRIVING METHODS OF LED MODULE". 3. 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. 6. 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. 7. No load/standby power consumption is specified for 230VAC input.									

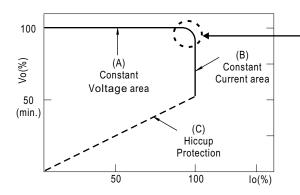
■ Block Diagram

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



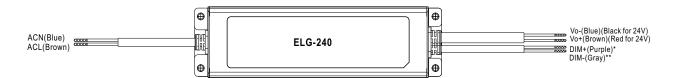
Typical output current normalized by rated current (%)

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.

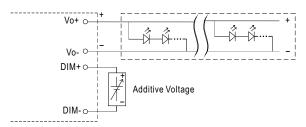


■ DIMMING OPERATION



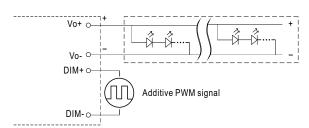
※ 3 in 1 dimming function (for B-Type)

- 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: $100\mu A$ (typ.)
- O Applying additive 0 ~ 10VDC



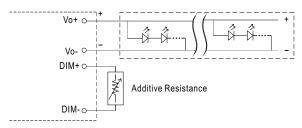
"DO NOT connect "DIM- to Vo-"

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



"DO NOT connect "DIM- to Vo-"

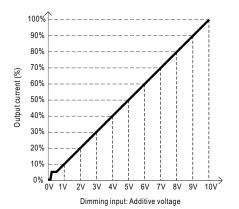
O Applying additive resistance:

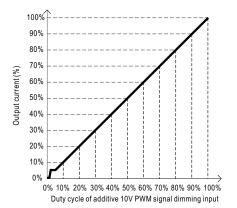


"DO NOT connect "DIM- to Vo-"









100%
90%
80%
70%
60%
40%
30%
20%
Short 10KIN 20KIN 30KIN 40KIN 50KIN 60KIN 70KIN 80KIN 90KIN 100KIN (Nedriver quantity for synchronized dimming operation)
Dimming input: Additive resistance

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

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

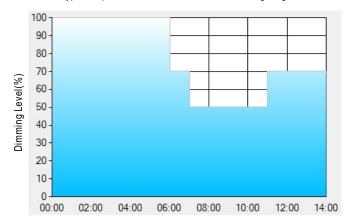
DALI Interface (primary side; for DA-Type)

- · Apply DALI signal between DA+ and DA-.
- · DALI protocol comprises 16 groups and 64 addresses.
- · First step is fixed at 8% of output.

X 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



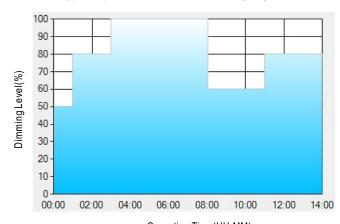
Set up for D01-Type in Smart timer dimming software program:

	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%

Operating Time(HH:MM)

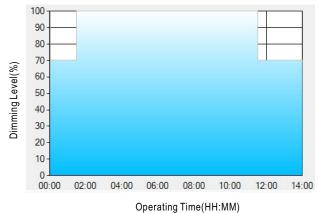
- **: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
- Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:
- [1] The power supply will switch to the constant current level at 50% starting from 5:00pm.
- [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.



240W Constant Voltage + Constant Current LED Driver

ELG-240 series

Ex: O D03-Type: the profile recommended for tunnel lighting



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.

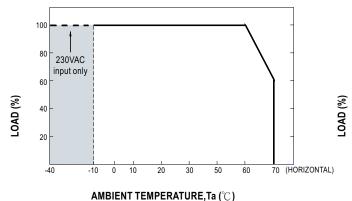
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

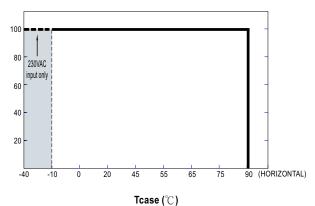
- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current 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.



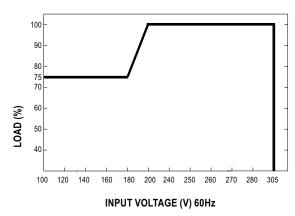
■ OUTPUT LOAD vs TEMPERATURE





 If ELG-240 operates in Constant Current mode with the rated current, the maximum workable Ta is 60°C.

■ STATIC CHARACTERISTIC

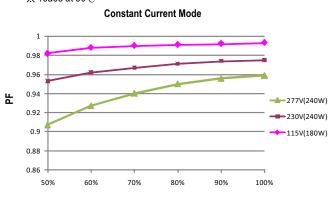


* De-rating is needed under low input voltage.

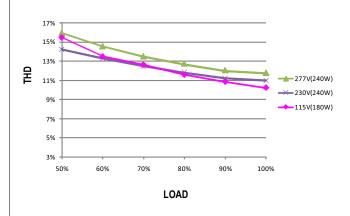
■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 80°

C



■ TOTAL HARMONIC DISTORTION (THD)

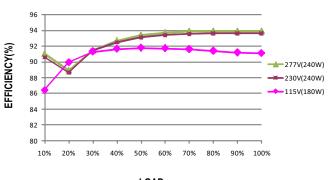


■ EFFICIENCY vs LOAD

 ${\rm ELG\text{-}}240$ series possess superior working efficiency that up to 93% can be reached in field applications.

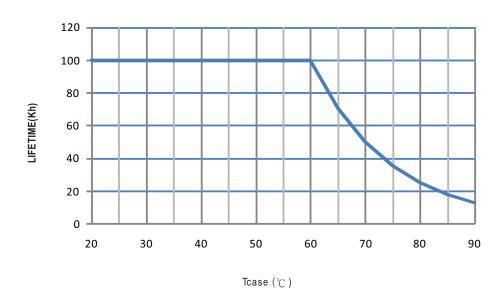
LOAD

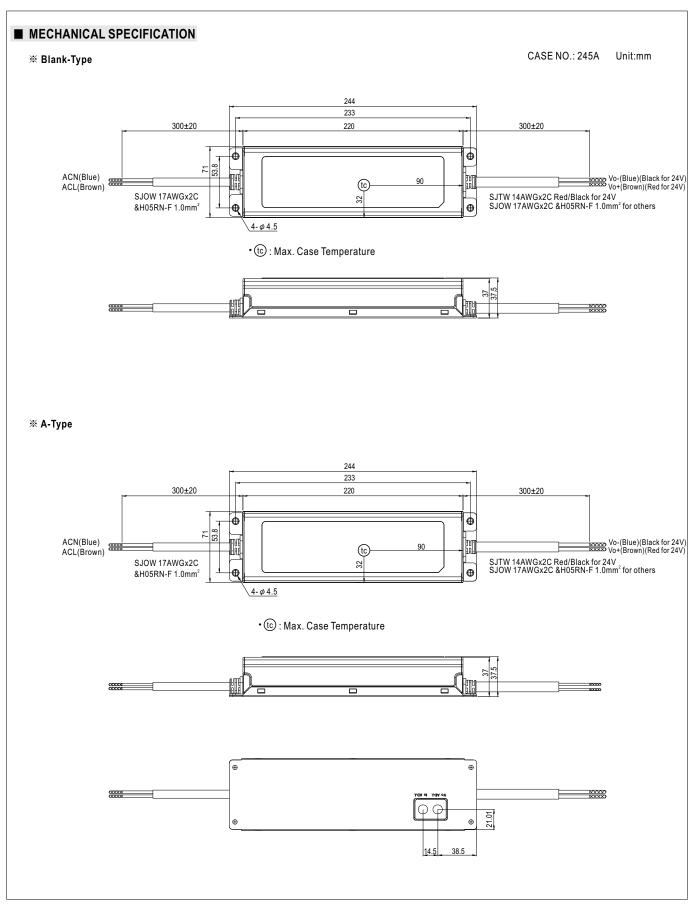
imes 48V Model, Tcase at 80 $^{\circ}$ C



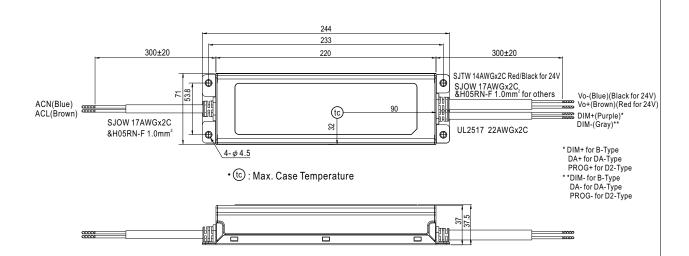
LOAD

■ LIFE TIME





B/DA/D2-Type



- O Note1: Please connect the case to FG for the complete EMC deliverance.
- O Note2: Please contact MEAN WELL for input wiring option with FG.

■ INSTALLATION MANUAL

Please refer to: http://www.meanwell.com/webnet/search/InstallationSearch.html