

























### Features

- · Constant Voltage + Constant Current mode output
- Metal housing design with functional Ground
- · Built-in active PFC function
- No load / Standby power consumption < 0.5W</li>
- 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; Auxiliary DC output
- Typical lifetime>50000 hours
- 5 years warranty

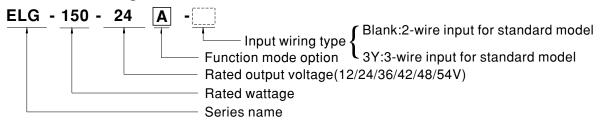
# Applications

- 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-150 series is a 150W AC/DC LED driver featuring the dual mode constant voltage and constant current output. ELG-150 operates from 100~305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40 °C ~ +90 °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-150 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	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
AB	IP65	Io and Vo 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
BE	IP67	3 in 1 dimming function and Auxiliary DC output	In Stock

#### **SPECIFICATION**

MODEL			ELG-150-12	ELG-150-24	ELG-150-36	ELG-150-42	ELG-150-48	ELG-150-54				
	DC VOLTAGE		12V	24V	36V	42V	48V	54V				
	CONSTANT CURR	ENT REGION Note.2	6 ~ 12V	12 ~ 24V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V				
	RATED CURRE	NT	10A	6.25A	4.17A	3.57A	3.13A	2.8A				
	RATED CURREN	T(for BE Type only)	8A	5.6A	3.73A	3.2A	2.8A	2.5A				
OUTPUT			100VAC ~ 180VAC									
		(For All the Types)	84W	105W	105W	105W	105W	105W				
	RATED POWER		200VAC ~ 305VAC		<u>'</u>		<u>'</u>					
	POWER	(Except for BE Type)		150W	150.1W	150W	150.2W	151.2W				
		(For BE Type only)	96W	134.4W	134.28W	134.4W	134.4W	135W				
	RIPPLE & NOIS	,	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p				
	RIPPLE & NOIS	E (max.) Note.3				230111Vp-p	250111Vp-p	330ПГГР-Р				
	VOLTAGE ADJ. RANGE		Adjustable for A/AB-Type only (via the built-in potentiometer)									
			10.8 ~ 13.2V	21.6 ~ 26.4V	32.4 ~ 39.6V	37.8 ~ 46.2V	43.2 ~ 52.8V	49 ~ 58V				
	CURRENT ADJ. RANGE		Adjustable for A/AB-	Type only (via the bu	ilt-in potentiometer)							
	OOTRICENT ADO	. IVAITOL	5 ~ 10A	3.2 ~ 6.25A	2.1 ~ 4.17A	1.8 ~ 3.57A	1.56 ~ 3.13A	1.4 ~ 2.8A				
	VOLTAGE TOL	VOLTAGE TOLERANCE Note.4		±3.0%	±2.5%	±2.5%	±2.0%	±2.0%				
	LINE REGULA	TION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	LOAD REGULA	ATION	±2.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%				
	AUXILIARY DO	OUTPUT	Nominal 15V(deviat	tion 11.5~15.5V)@0.3	BA for BE-Type only		'					
	SETUP, RISE T		1600ms, 80ms/115\	, -	ms/230VAC							
	-		10ms/115VAC, 230VAC									
	HOLD UP TIME (Typ.)			142 ~ 431VDC								
	VOLTAGE RAN	GE Note.5	100 ~ 305VAC									
-	FREQUENCY RANGE		47 ~ 63Hz									
	FREQUENCY KANGE			DE > 0.05/220\/A.C. DI	E>0.02/277\/AC@f::II	load						
	POWER FACTO	OR .	PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)									
	TOTAL HARMONI	C DISTORTION	THD<20%(@load≥50%/115VC; @load≥60%/230VAC; @load≥75%/277VAC)									
INPUT	EFFICIENCY (T		88.5%	89%	STORTION(THD)" se	90%	90%	91%				
01	, ,		86%	89%	89%	89%	89%					
	EFFICIENCY (Typ.)(for BE Type only)			1	1	09%	09%	89%				
	AC CURRENT		1.7A / 115VAC 0.9A / 230VAC 0.7A / 277VAC									
	INRUSH CURRENT(Typ.)  MAX. No. of PSUs on 16A		COLD START 65A(twidth=550µs measured at 50% lpeak) at 230VAC; Per NEMA 410									
	CIRCUIT BREAKER		3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT		<0.75mA / 277VAC									
	NO LOAD / STANDBY POWER CONSUMPTION		No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA-Type									
	I OWER CORS	OWN TION										
	OVER CURRENT		95 ~ 108%									
			Constant current limiting, recovers automatically after fault condition is removed									
							Hiccup mode, recovers automatically after fault condition is removed					
DOTESTION .	SHORT CIRCU		Hiccup mode, recov				T =	T				
PROTECTION		IT	Hiccup mode, recov	28 ~ 34V	41 ~ 48V	47 ~ 54V	54 ~ 62V	59 ~ 68V				
PROTECTION	SHORT CIRCU	IT GE	Hiccup mode, recov 14 ~ 18V Shut down output v	28 ~ 34V roltage, re-power on	41 ~ 48V to recover		54 ~ 62V	59 ~ 68V				
PROTECTION	SHORT CIRCU OVER VOLTAG	EATURE	Hiccup mode, recov 14 ~ 18V Shut down output v Shut down output v	28 ~ 34V roltage, re-power on roltage, re-power on	41 ~ 48V to recover to recover	47 ~ 54V	54 ~ 62V	59 ~ 68V				
PROTECTION	SHORT CIRCU OVER VOLTAG OVER TEMPER WORKING TEM	EATURE	Hiccup mode, recov 14 ~ 18V Shut down output v Shut down output v	28 ~ 34V roltage, re-power on roltage, re-power on	41 ~ 48V to recover	47 ~ 54V	54 ~ 62V	59 ~ 68V				
PROTECTION	SHORT CIRCU OVER VOLTAG	EATURE	Hiccup mode, recov 14 ~ 18V Shut down output v Shut down output v	28 ~ 34V roltage, re-power on roltage, re-power on	41 ~ 48V to recover to recover	47 ~ 54V	54 ~ 62V	59 ~ 68V				
PROTECTION	SHORT CIRCU OVER VOLTAG OVER TEMPER WORKING TEM	EE EATURE IP. MP.	Hiccup mode, recov 14 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C	28 ~ 34V roltage, re-power on oltage, re-power on (Please refer to " OU"	41 ~ 48V to recover to recover	47 ~ 54V	54 ~ 62 V	59 ~ 68V				
	SHORT CIRCU OVER VOLTAG OVER TEMPER WORKING TEM MAX. CASE TE	EE EATURE IP. MP. MIDITY	Hiccup mode, recov 14 ~ 18V Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C	28 ~ 34V roltage, re-power on oltage, re-power on (Please refer to " OU"	41 ~ 48V to recover to recover	47 ~ 54V	54 ~ 62V	59 ~ 68V				
	SHORT CIRCU OVER VOLTAG OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM	EATURE IP. MP. MIDITY IP., HUMIDITY	Hiccup mode, recove 14 ~ 18V  Shut down output volume 15 Shut down output v	28 ~ 34V roltage, re-power on oltage, re-power on (Please refer to " OU' ondensing 5% RH	41 ~ 48V to recover to recover	47 ~ 54V	54 ~ 62V	59 ~ 68V				
	SHORT CIRCU OVER VOLTAG OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM	EATURE IP. MP. MIDITY IP., HUMIDITY	Hiccup mode, recoved 14 ~ 18V Shut down output vortices $-40 \sim +90^{\circ}$ Tcase= $-40 \sim +90^{\circ}$ Tcase= $+90^{\circ}$ RH non-cover $-40 \sim +80^{\circ}$ C, $10 \sim 90^{\circ}$ $\pm 0.03\%$ (0 ~ 60° C)	28 ~ 34V roltage, re-power on oltage, re-power on (Please refer to " OU" ondensing 5% RH	41~48V to recover to recover TPUT LOAD vs TEMF	47 ~ 54V PERATURE" section)	54 ~ 62V	59 ~ 68V				
PROTECTION	SHORT CIRCU OVER VOLTAG OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEMP. COEFFI	EATURE IP. MP. MIDITY IP., HUMIDITY CIENT	Hiccup mode, recove 14 ~ 18V  Shut down output vortices = 40 ~ +90°C  Tcase=+90°C  20 ~ 95% RH non-color -40 ~ +80°C, 10 ~ 90°C  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12n  UL8750(type"HL")(eindependent, BS EN/	28 ~ 34V roltage, re-power on oltage, re-power on (Please refer to " OU' ondensing 5% RH C) nin./1cycle, period for xcept for BE-type), CS EN62384,BIS IS1588	41~48V to recover to recover TPUT LOAD vs TEMF  7 72min. each along & SA C22.2 No. 250.13-1 5(for 12/12A/12B/12D.	2FRATURE" section) (x, y, z axes 2;IEC/BS EN/EN/AS/N. A/24/24A/24B/24DA/36	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48 <i>F</i>	/EN/AS/NZS 61347-2				
ENVIRONMENT	SHORT CIRCU OVER VOLTAGE OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFI- VIBRATION SAFETY STANI	ATURE IP. MP. MIDITY IP., HUMIDITY CIENT	Hiccup mode, recove 14 ~ 18V  Shut down output voor Shut down output voor Tcase=40 ~ +90°C  20 ~ 95% RH non-cut -40 ~ +80°C, 10 ~ 90  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12n  UL8750(type"HL")(eindependent, BS EN/EAC TP TC 004, GB*	28 ~ 34V  oltage, re-power on oltage, re-power oltage, re-	41~48V to recover to recover TPUT LOAD vs TEMF  7 72min. each along X SA C22.2 No. 250.13-1 5(for 12/12A/12B/12D. IP65 or IP67; KC6134	2ERATURE" section) 25, Y, Z axes 2;IEC/BS EN/EN/AS/N. A/24/24A/24B/24DA/36 7-1,KC61347-2-13 app	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48 <i>F</i>	/EN/AS/NZS 61347-2				
ENVIRONMENT	SHORT CIRCU OVER VOLTAGE OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFI- VIBRATION SAFETY STANI DALI STANDARI	ATURE IP. MP. MIDITY IP., HUMIDITY CIENT  DARDS	Hiccup mode, recove 14 ~ 18V  Shut down output vortices = -40 ~ +90°C  Tcase=+90°C  20 ~ 95% RH non-cota = -40 ~ +80°C, 10 ~ 90°C  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12n  UL8750(type"HL")(e independent, BS EN/EAC TP TC 004, GB1)  Compliance to IEC	28 ~ 34V  roltage, re-power on oltage, re-power on oltage, re-power on oltage, re-power on ondensing  5% RH  C)  nin./1cycle, period for xcept for BE-type), CS EN62384,BIS IS1588 19510.1,GB19510.14; 62386-101,102,(207	41~48V to recover to recover TPUT LOAD vs TEMF  72min. each along X SA C22.2 No. 250.13-1 5(for 12/12A/12B/12D IP65 or IP67; KC6134 7 by request) for DA T	2ERATURE" section) 25, Y, Z axes 2;IEC/BS EN/EN/AS/N. A/24/24A/24B/24DA/36 7-1,KC61347-2-13 app	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48 <i>F</i>	/EN/AS/NZS 61347-2				
ENVIRONMENT	SHORT CIRCU OVER VOLTAGO OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFI VIBRATION SAFETY STANI DALI STANDARI WITHSTAND VI	ATURE  APPLICATION  APPLICATION	Hiccup mode, recoved 14 ~ 18V  Shut down output volume 15 Shut down output volume 16 Shut down output	28 ~ 34V roltage, re-power on oltage, re-power on oltage, re-power on oltage, re-power on ondensing 5% RH C) nin./1cycle, period for xcept for BE-type), CS (EN62384,BIS IS1588 19510.1,GB19510.14; 62386-101,102,(207 I/P-FG:2.0KVAC	41~48V to recover to recover TPUT LOAD vs TEMF  7 72min. each along X SA C22.2 No. 250.13-1 5(for 12/12A/12B/12D. IP65 or IP67; KC6134 V by request) for DA T O/P-FG:1.5KVAC	47 ~ 54V  PERATURE" section)  (1, Y, Z axes 2;IEC/BS EN/EN/AS/N. A/24/24A/24B/24D/36 7-1,KC61347-2-13 app ype only	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48 <i>F</i>	/EN/AS/NZS 61347-2				
ENVIRONMENT	SHORT CIRCU OVER VOLTAGE OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFI- VIBRATION SAFETY STANI DALI STANDARI	ATURE  APPLICATION  APPLICATION	Hiccup mode, recoved 14 ~ 18V  Shut down output vortices = 40 ~ +90°C  Tcase=+90°C  20 ~ 95% RH non-color = 40 ~ +80°C, 10 ~ 90°C  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12n  UL8750(type"HL")(e independent, BS EN/EAC TP TC 004, GB1  Compliance to IEC  I/P-O/P: 3.75KVAC	28 ~ 34V roltage, re-power on oltage, re-power on oltage, re-power on oltage, re-power on ondensing 5% RH C) nin./1cycle, period for xcept for BE-type), CS EN62384,BIS IS1588 19510.1,GB19510.14; 62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / 5	41~48V to recover to recover TPUT LOAD vs TEMF  7 72min. each along X SA C22.2 No. 250.13-1 5(for 12/12A/12B/12D. IP65 or IP67; KC6134 7 by request) for DA T O/P-FG:1.5KVAC	47 ~ 54V  PERATURE" section)  (I, Y, Z axes 2;IEC/BS EN/EN/AS/N. A/24/24A/24B/24DA/36 7-1,KC61347-2-13 app ype only	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48/ roved	/EN/AS/NZS 61347-: \/48B/54/54A/54B on				
	SHORT CIRCU OVER VOLTAGO OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFI VIBRATION SAFETY STANI DALI STANDARI WITHSTAND VI	ATURE  APPLICATION  APPLICATION	Hiccup mode, recoved 14 ~ 18V  Shut down output vortices = 40 ~ +90°C  Tcase=+90°C  20 ~ 95% RH non-color = 40 ~ +80°C, 10 ~ 90°C  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12n  UL8750(type"HL")(e independent, BS EN/EAC TP TC 004, GB1  Compliance to IEC  I/P-O/P: 3.75KVAC	28 ~ 34V  roltage, re-power on oltage, re-power on oltage, re-power oltage, r	41~48V to recover to recover TPUT LOAD vs TEMF  7 72min. each along X SA C22.2 No. 250.13-1 5(for 12/12A/12B/12D. IP65 or IP67; KC6134 7 by request) for DA T O/P-FG:1.5KVAC	47 ~ 54V  PERATURE" section)  (I, Y, Z axes 2;IEC/BS EN/EN/AS/N. A/24/24A/24B/24DA/36 7-1,KC61347-2-13 app ype only	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48 <i>F</i>	/EN/AS/NZS 61347-: \/48B/54/54A/54B on				
ENVIRONMENT	SHORT CIRCU OVER VOLTAGE OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFIC VIBRATION SAFETY STANI DALI STANDARI WITHSTAND VI	ATURE  IP. MP. MIDITY IP., HUMIDITY CIENT  DARDS  DS OLTAGE SISTANCE	Hiccup mode, recove 14 ~ 18V  Shut down output volume 15 Shut down output volume 16 Shut down 16 Shut dow	28 ~ 34V  roltage, re-power on oltage, re-power on oltage, re-power on oltage, re-power on ondensing  5% RH  C)  nin./1cycle, period for xcept for BE-type), CS EN62384,BIS IS1588 19510.1,GB19510.14; 62386-101,102,(207  I/P-FG:2.0KVAC P-FG:100M Ohms / 6: EN/EN55015,BS EN/E  KN15,KN61547	41 ~ 48V to recover to recover TPUT LOAD vs TEMF  7 72min. each along X SA C22.2 No. 250.13-1 5(for 12/12A/12B/12D. 1P65 or IP67; KC6134 7 by request) for DA T O/P-FG:1.5KVAC 500VDC / 25°C / 70% EN61000-3-2 Class C 5,6,8,11; BS EN/EN61	47 ~ 54V  PERATURE" section)  (1, Y, Z axes 2;IEC/BS EN/EN/AS/N A/24/24A/24B/24DA/36 7-1,KC61347-2-13 app ype only  RH (@load ≥ 60%); BS E	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48/ roved	/EN/AS/NZS 61347-; \/48B/54/54A/54B on				
SAFETY &	SHORT CIRCU OVER VOLTAGE OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFI VIBRATION SAFETY STANI DALI STANDARI WITHSTAND VI ISOLATION RE EMC EMISSION EMC IMMUNITY	ATURE  IP. MP. MIDITY IP., HUMIDITY CIENT  DARDS  DS OLTAGE SISTANCE	Hiccup mode, recove 14 ~ 18V  Shut down output volume 15 Shut down output volume 16 Shut down 16 Shut dow	28 ~ 34V  oltage, re-power on oltage, re-power on (Please refer to "OU"  ondensing 5% RH  C)  nin./1cycle, period for xcept for BE-type), CS EN62384,BIS IS1588 19510.1,GB19510.14; 62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / \$ EN/EN55015,BS EN/E C KN15,KN61547  EN/EN61000-4-2,3,4,6 C TP TC 020; KC KN1 cordia SR-332 (Bellco	41~48V to recover to recover TPUT LOAD vs TEMF  72min. each along X SA C22.2 No. 250.13-1 5(for 12/12A/12B/12D IP65 or IP67; KC6134 'by request) for DA T O/P-FG:1.5KVAC 500VDC / 25°C / 70% EN61000-3-2 Class C 5,6,8,11; BS EN/EN61 5,KN61547	PERATURE" section)  (A, Y, Z axes 2;IEC/BS EN/EN/AS/N. A/24/24A/24B/24DA/36 7-1,KC61347-2-13 app ype only  RH (@load ≥ 60%); BS E  547, light industry leve	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48/ roved :N/EN61000-3-3; Gb17 el (surge immunity Line	/EN/AS/NZS 61347-; \/48B/54/54A/54B on				
ENVIRONMENT	SHORT CIRCU OVER VOLTAGE OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFI VIBRATION SAFETY STANI DALI STANDARI WITHSTAND VI ISOLATION RE EMC EMISSION EMC IMMUNITY	ATURE  IP. MP. MIDITY IP., HUMIDITY CIENT  DARDS  DS OLTAGE SISTANCE	Hiccup mode, recove 14 ~ 18V  Shut down output vortices = 40 ~ +90°C  Tcase=+90°C  20 ~ 95% RH non-color = 40 ~ +80°C, 10 ~ 90°C  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12n  UL8750(type"HL")(e independent, BS EN/EAC TP TC 004, GB1)  Compliance to IEC  I/P-O/P; 3.75KVAC  I/P-O/P, I/P-FG, O/C  Compliance to BS EAC TP TC 020; KC  Compliance to BS EAC TP TC 020; KC  Compliance to BS EICH EAC TP TC 020; KC	28 ~ 34V  oltage, re-power on oltage, re-power on (Please refer to "OU"  ondensing 5% RH  C)  nin./1cycle, period for xcept for BE-type), CS EN62384,BIS IS1588 19510.1,GB19510.14; 62386-101,102,(207 I/P-FG:2.0KVAC P-FG:100M Ohms / \$ EN/EN55015,BS EN/E C KN15,KN61547 EN/EN61000-4-2,3,4,6 C TP TC 020; KC KN1 cordia SR-332 (Bellco	41~48V to recover to recover TPUT LOAD vs TEMF  72min. each along X SA C22.2 No. 250.13-1 5(for 12/12A/12B/12D IP65 or IP67; KC6134 'by request) for DA T O/P-FG:1.5KVAC 500VDC / 25°C / 70% EN61000-3-2 Class C 5,6,8,11; BS EN/EN61 5,KN61547	PERATURE" section)  (A, Y, Z axes 2;IEC/BS EN/EN/AS/N. A/24/24A/24B/24DA/36 7-1,KC61347-2-13 app ype only  RH (@load ≥ 60%); BS E  547, light industry leve	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48/ roved :N/EN61000-3-3; Gb17 el (surge immunity Line	/EN/AS/NZS 61347-2 \/48B/54/54A/54B on				

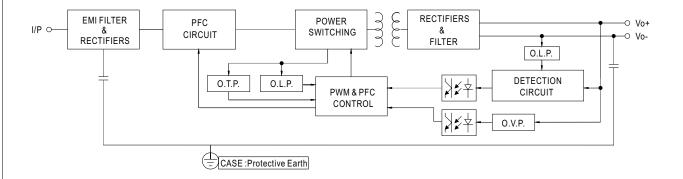
2. Please refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage under rated power deliv 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
4. Tolerance : includes set up tolerance, line regulation and load regulation.
5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTICS" 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. 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.
8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to) point (or TMP, per DLC), is about 80°C or less.
9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.
10. 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).
11. 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
12. 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. connected to the mains.

13. ELG-150-12(except blank/A-Type) is used for any light source that exempt from the ErP-Directive (EU) 2019/2020 requirement, for example this model could be



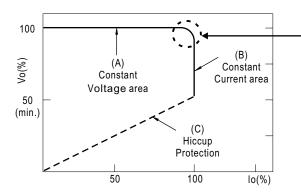
## ■ Block Diagram

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



### ■ DRIVING METHODS OF LED MODULE

\* 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.



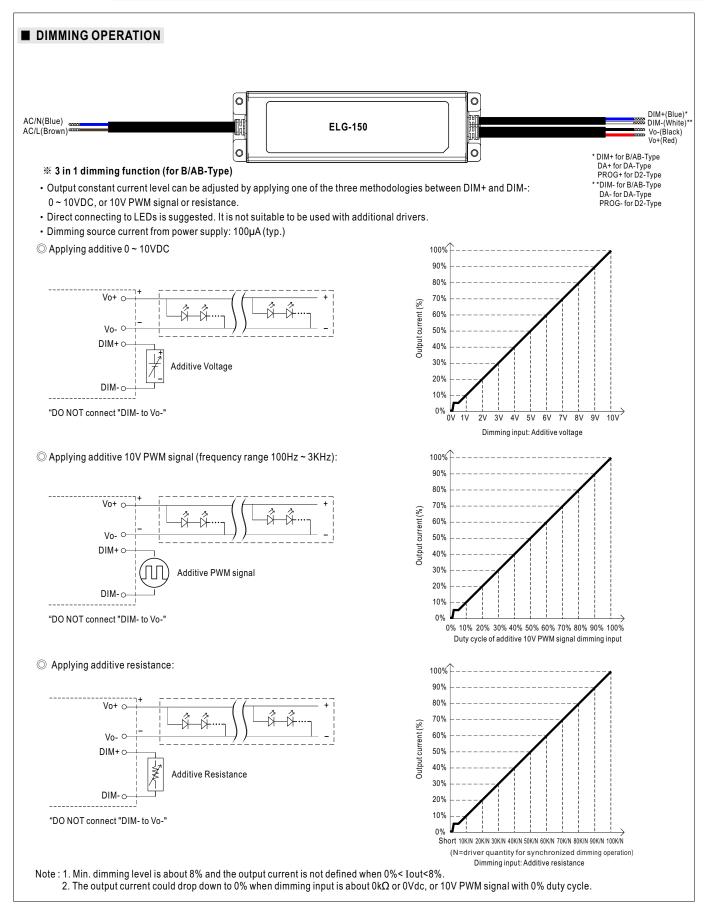
Typical output current normalized by rated current (%)

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.

○ This characteristic applies to Blank/A/B/AB/DX/D2/BE-Type, For DA-Type, the Constant Current area is 60%~100% Vo.







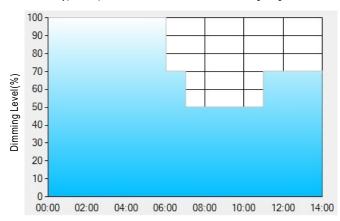
#### DALI Interface (primary side; for DA-Type)

- · 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%

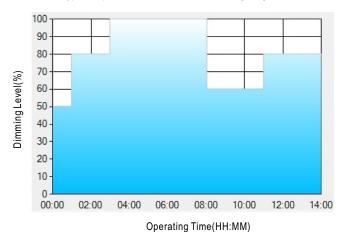
Operating Time(HH:MM)

- \*\*: 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:

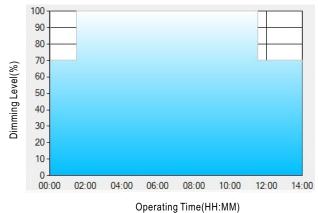
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

- \*\*: 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%

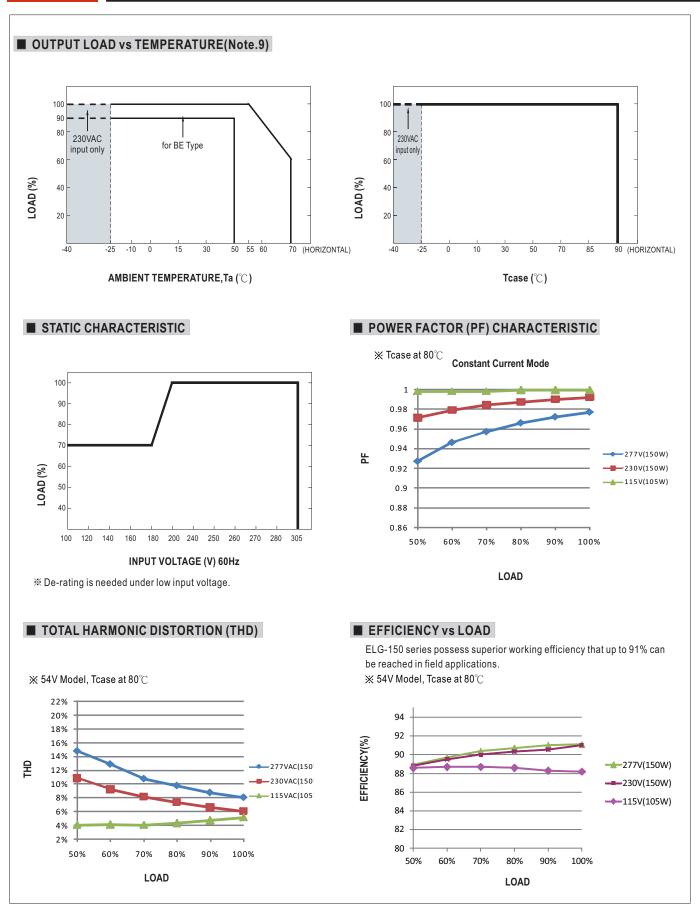
\*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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

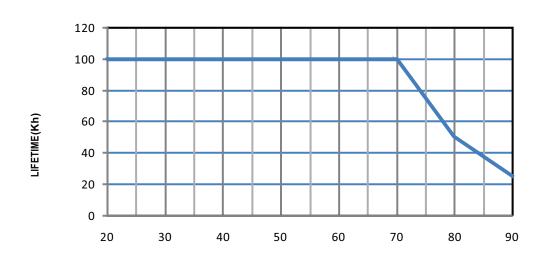
- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, 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.



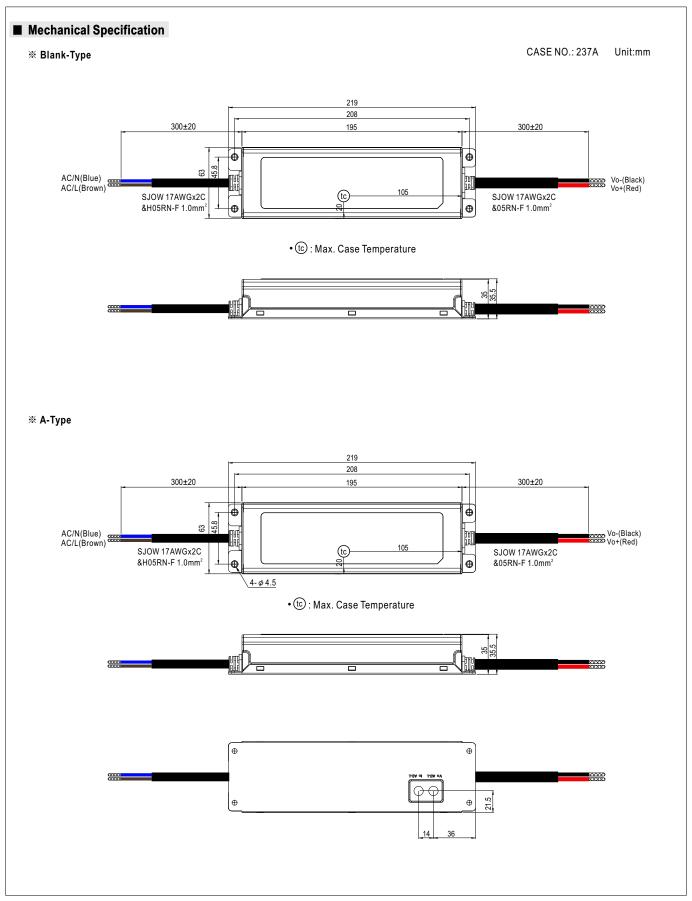






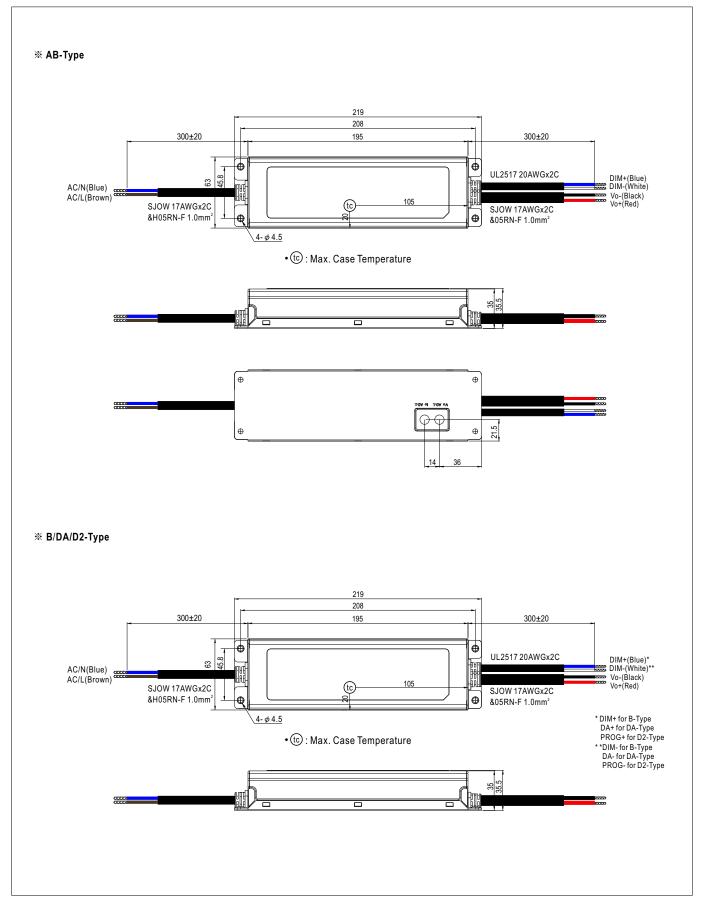
Tcase (  $^{\circ}\!\mathbb{C}$  )





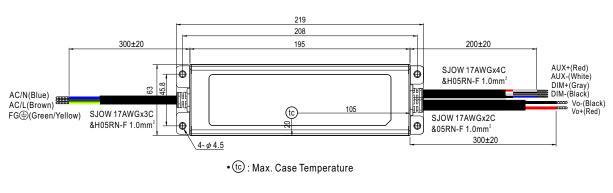






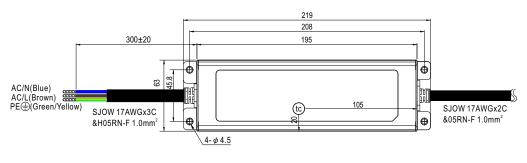


### ※ BE-Type





#### ※ 3Y Model (3-wire input)



• tc : Max. Case Temperature

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

## ■ INSTALLATION MANUAL

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