





























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
- 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

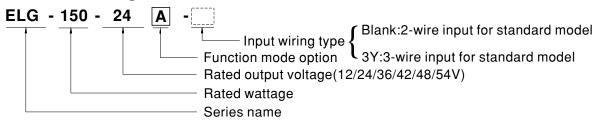
Applications

- 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

			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						
			100VAC ~ 180VAC						
	POWER	(For All the Types)	84W	105W	105W	105W	105W	105W	
ОИТРИТ			200VAC ~ 305VAC						
		(Except for BE Type)		150W	150.1W	150W	150.2W	151.2W	
		(For BE Type only)	· ·	134.4W	134.28W	134.4W	134.4W	135W	
	DIDDLE & NOIS				250mVp-p		-		
	RIPPLE & NOISE (max.) Note.3		150mVp-p	200mVp-p		250mVp-p	250mVp-p	350mVp-p	
	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 bui	It-in potentiometer)				
	CORREIN ADS	. KANGE	5 ~ 10A	3.2 ~ 6.25A	2.1 ~ 4.17A	1.8 ~ 3.57A	1.56 ~ 3.13A	1.4 ~ 2.8A	
	VOLTAGE TOL	ERANCE Note.4	±3.0%	±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		±2.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	
	AUXILIARY DC			tion 11.5~15.5V)@0.3		120.070	1 20.070	1=0.00	
			,						
	SETUP, RISE T		1600ms, 80ms/115VAC 500ms, 100ms/230VAC						
	HOLD UP TIME	(Тур.)	10ms/115VAC, 230						
	VOLTAGE RAN	GE Note.5	100 ~ 305VAC 142 ~ 431VDC						
	7021710210111	OL NOIC.U	(Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY R	RANGE	47 ~ 63Hz						
	DOWED FACTO	ND.	PF≥0.97/115VAC,	PF≥0.95/230VAC, PF	≥ 0.92/277VAC@full	load			
	POWER FACTO	JK .	PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
			THD< 20%(@load:	≧50%/115VC; @load≧	≥60%/230VAC: @loa				
	TOTAL HARMONI	C DISTORTION		OTAL HARMONIC DIS					
NPUT	EFFICIENCY (T	vn \	88.5%	89%	90%	90%	90%	91%	
ļ	EFFICIENCY (Typ	p.)(for BE Type only)		89%	89%	89%	89%	89%	
	AC CURRENT		1.7A / 115VAC 0.9A / 230VAC 0.7A / 277VAC						
	INRUSH CURR	ENT(Typ.)	COLD START 65A(twidth=550µs measured at 50% Ipeak) at 230VAC; Per NEMA 410						
	MAX. No. of PS	SUs on 16A	2 units (singuither allow of turns D) (Sunits (singuither allow of turns C) at 220\/AC						
	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 / STA	NDBV	No load power consumption <0.5W for Blank / A / Dx / D2-Type						
	POWER CONS		Standby power consumption <0.5W for B / AB / DA-Type						
	OVER CURRENT		95 ~ 108%						
				Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed					
	SHORT CIRCUIT		Hiccup mode, recov		r fault condition is rer				
PROTECTION	OVERVOLTAGE				1			T	
KOTECTION	OVER VOLTAG		14 ~ 18V	28 ~ 34V	41 ~ 48V	47 ~ 54V	54 ~ 62V	59 ~ 68V	
KOTECTION	OVER VOLTAG				41 ~ 48V		54 ~ 62V	59 ~ 68V	
KOTECTION	OVER VOLTAG	BE .	Shut down output v	28 ~ 34V	41 ~ 48V to recover		54 ~ 62V	59 ~ 68V	
KOTECTION		GE ATURE	Shut down output v	28 ~ 34V voltage, re-power on t	41 ~ 48V to recover o recover	47 ~ 54V	54 ~ 62V	59 ~ 68V	
KOTECTION	OVER TEMPER	GE ATURE IP.	Shut down output v	28 ~ 34V voltage, re-power on t	41 ~ 48V to recover o recover	47 ~ 54V	54 ~ 62V	59 ~ 68V	
KOTECTION	OVER TEMPER WORKING TEM MAX. CASE TE	GE ATURE IP. MP.	Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C	28 ~ 34V voltage, re-power on t voltage, re-power on t (Please refer to " OUT	41 ~ 48V to recover o recover	47 ~ 54V	54 ~ 62V	59 ~ 68V	
	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM	ATURE IP. MP. MIDITY	Shut down output v Shut down output v Tcase=- $40 \sim +90^{\circ}$ C Tcase=+ 90° C $20 \sim 95\%$ RH non-c	28 ~ 34V voltage, re-power on t voltage, re-power on t (Please refer to " OUT	41 ~ 48V to recover o recover	47 ~ 54V	54 ~ 62V	59 ~ 68V	
	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM	ATURE IP. MP. MIDITY IP., HUMIDITY	Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +80°C, 10 ~ 9	28 ~ 34V voltage, re-power on tvoltage, re-p	41 ~ 48V to recover o recover	47 ~ 54V	54 ~ 62V	59 ~ 68V	
	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEMP. COEFFI	ATURE IP. MP. MIDITY IP., HUMIDITY	Shut down output v Shut down output v Tcase=-40 \sim +90 $^{\circ}$ C Tcase=+90 $^{\circ}$ C 20 \sim 95% RH non-c -40 \sim +80 $^{\circ}$ C, 10 \sim 9 \pm 0.03%/ $^{\circ}$ C (0 \sim 60 $^{\circ}$	28 ~ 34V roltage, re-power on troltage, re-p	41 ~ 48V o recover o recover FPUT LOAD vs TEMF	47 ~ 54V PERATURE" section)	54 ~ 62V	59 ~ 68V	
	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM	ATURE IP. MP. MIDITY IP., HUMIDITY	Shut down output v Shut down output v Tcase=-40 \sim +90 $^{\circ}$ C Tcase=+90 $^{\circ}$ C 20 \sim 95% RH non-c -40 \sim +80 $^{\circ}$ C, 10 \sim 9 \pm 0.03%/ $^{\circ}$ C (0 \sim 60 $^{\circ}$ 10 \sim 500Hz, 5G 12r	28 ~ 34V roltage, re-power on troltage, re-p	41~48V o recover o recover FPUT LOAD vs TEMF	47 ~ 54V PERATURE" section) (, Y, Z axes			
	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEMP. COEFFI	ATURE IP. MP. MIDITY IP., HUMIDITY	Shut down output v Shut down output v Tcase=-40 \sim +90 $^{\circ}$ C Tcase=+90 $^{\circ}$ C 20 \sim 95% RH non-c -40 \sim +80 $^{\circ}$ C, 10 \sim 9 \pm 0.03%/ $^{\circ}$ C (0 \sim 60 $^{\circ}$ 10 \sim 500Hz, 5G 12r UL8750(type"HL")(e	28 ~ 34V roltage, re-power on troltage, re-power on the roltage of the re-power of the re-	41~48V o recover o recover FPUT LOAD vs TEMF 72min. each along X	PERATURE" section) (, Y, Z axes 2;IEC/BS EN/EN/AS/N	ZS 61347-1,IEC/BS EN	N/EN/AS/NZS 61347-	
	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEMP. COEFFI	SE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT	Shut down output v Shut down output v Tcase=-40 \sim +90 $^{\circ}$ C Tcase=+90 $^{\circ}$ C 20 \sim 95% RH non-c -40 \sim +80 $^{\circ}$ C, 10 \sim 9 \pm 0.03%/ $^{\circ}$ C (0 \sim 60 $^{\circ}$ 10 \sim 500Hz, 5G 12r UL8750(type"HL")(e independent,BS EN	28 ~ 34V voltage, re-power on to the voltage, re-power on the voltage of th	41~48V o recover o recover FPUT LOAD vs TEMF 72min. each along X A 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 SA/36B/42/42A/42B/48	N/EN/AS/NZS 61347-	
NVIRONMENT	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFIC VIBRATION SAFETY STANK	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS	Shut down output v. Shut down output v. Tcase= $-40 \sim +90^{\circ}\mathrm{C}$ Tcase= $+90^{\circ}\mathrm{C}$ 20 $\sim 95\%$ RH non-c- $-40 \sim +80^{\circ}\mathrm{C}$, $10 \sim 90$ $\pm 0.03\%$ /°C (0 $\sim 60^{\circ}$ $10 \sim 500$ Hz, 5G 12r UL8750(type"HL")(e independent,BS EN EAC TP TC 004,GB	28 ~ 34V roltage, re-power on to roltage, re-power on the roltage of th	41~48V o recover o recover FPUT LOAD vs TEMF 72min. each along X A C22.2 No. 250.13-1 5(for 12/12A/12B/12D) P65 or IP67; KC6134	2FRATURE" section) (A, 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 SA/36B/42/42A/42B/48	N/EN/AS/NZS 61347-	
NVIRONMENT	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFIC VIBRATION	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS	Shut down output v. Shut down output v. Tcase= $-40 \sim +90^{\circ}\mathrm{C}$ Tcase= $+90^{\circ}\mathrm{C}$ 20 $\sim 95\%$ RH non-c- $-40 \sim +80^{\circ}\mathrm{C}$, $10 \sim 90$ $\pm 0.03\%$ /°C (0 $\sim 60^{\circ}$ $10 \sim 500$ Hz, 5G 12r UL8750(type"HL")(e independent,BS EN EAC TP TC 004,GB	28 ~ 34V voltage, re-power on to the voltage, re-power on the voltage of th	41~48V o recover o recover FPUT LOAD vs TEMF 72min. each along X A C22.2 No. 250.13-1 5(for 12/12A/12B/12D) P65 or IP67; KC6134	2FRATURE" section) (A, 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 SA/36B/42/42A/42B/48	N/EN/AS/NZS 61347-	
NVIRONMENT	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFIC VIBRATION SAFETY STANK	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS	Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +80°C, 10 ~ 9 ±0.03%/°C (0 ~ 60° 10 ~ 500Hz, 5G 12r UL8750(type"HL")(e independent, BS EN EAC TP TC 004,GB Compliance to IEC	28 ~ 34V roltage, re-power on to roltage, re-power on the roltage of th	41~48V o recover o recover FPUT LOAD vs TEMF 72min. each along X A C22.2 No. 250.13-1 5(for 12/12A/12B/12D IP65 or IP67; KC6134 by request) for DAT	2FRATURE" section) (A, 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 SA/36B/42/42A/42B/48	N/EN/AS/NZS 61347-	
NVIRONMENT	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFIG VIBRATION SAFETY STAND	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS DS OLTAGE	Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +80°C, 10 ~ 9 ±0.03%/°C (0 ~ 60° 10 ~ 500Hz, 5G 12r UL8750(type"HL")(e independent,BS EN EAC TP TC 004,GB Compliance to IEC I/P-O/P:3.75KVAC	28 ~ 34V roltage, re-power on troltage, re-power on the support of th	72min. each along X A C22.2 No. 250.13-1 5(for 12/12A/12B/12D. 1P65 or IP67; KC6134 by request) for DA T O/P-FG:1.5KVAC	47 ~ 54V PERATURE" section) (, Y, Z axes 2;IEC/BS EN/EN/AS/N A/24/24A/24B/24DA/36 7-1,KC61347-2-13 applype only	ZS 61347-1,IEC/BS EN SA/36B/42/42A/42B/48	N/EN/AS/NZS 61347-	
ENVIRONMENT	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFIG VIBRATION SAFETY STAND DALI STANDARI WITHSTAND VI	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS DS OLTAGE	Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +80°C, 10 ~ 9 ±0.03%/°C (0 ~ 60° 10 ~ 500Hz, 5G 12r UL8750(type"HL")(e independent,BS EN EAC TP TC 004,GB Compliance to IEC I/P-O/P:3.75KVAC	28 ~ 34V roltage, re-power on to roltage, re-power on the roltage of th	41~48V o recover o recover FPUT LOAD vs TEMF 72min. each along X A 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	47 ~ 54V PERATURE" section) (, Y, Z axes 2;IEC/ISS EN/EN/AS/N A/24/24A/24B/24DA/36 7-1,KC61347-2-13 app Type only	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48, roved	N/EN/AS/NZS 61347-: A/48B/54/54A/54B on	
	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFIC VIBRATION SAFETY STAND DALI STANDARI WITHSTAND VC	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS DS OLTAGE SISTANCE	Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +80°C, 10 ~ 9 ±0.03%/°C (0 ~ 60° 10 ~ 500Hz, 5G 12r UL8750(type"HL")(e independent,BS EN EAC TP TC 004,GB Compliance to IEC I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/ Compliance to BS E EAC TP TC 020; KC Compliance to BS E EAC TP TC 020; KC	28 ~ 34V roltage, re-power on to roltage, re-power on the roltage of th	72min. each along X A C22.2 No. 250.13-1 5(for 12/12A/12B/12D, P65 or IP67; KC6134 by request) for DA T O/P-FG:1.5KVAC 00VDC / 25°C / 70% N61000-3-2 Class C	PERATURE" section) (, Y, Z axes 2;IEC/ISS EN/EN/AS/N A/24/24A/24B/24DA/36 7-1,KC61347-2-13 app Type only RH (@load ≥ 60%); BS E	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48, roved :N/EN61000-3-3; Gb1	N/EN/AS/NZS 61347-: A/48B/54/54A/54B on 7743,GB17625.1,	
NVIRONMENT	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFIC VIBRATION SAFETY STAND DALI STANDARI WITHSTAND VO ISOLATION RE EMC EMISSION	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS DS OLTAGE SISTANCE	Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +80°C, 10 ~ 9 ±0.03%/°C (0 ~ 60° 10 ~ 500Hz, 5G 12r UL8750(type"HL")(e independent, BS EN EAC TP TC 004,GB Compliance to IEC I/P-O/P;3.75KVAC I/P-O/P, I/P-FG, O/ Compliance to BS E EAC TP TC 020; KC Compliance to BS E Line-Line 4KV),EAC	28 ~ 34V roltage, re-power on to roltage, re-power on to (Please refer to " OUT condensing 55% RH C) min./1cycle, period for except for BE-type), CS, //EN62384, BIS IS18886 19510.1, GB19510.14; In 62386-101, 102, (207 I/P-FG:2.0KVAC I/P-FG:100M Ohms / 5 EN/EN55015, BS EN/ED C KN15, KN61547 EN/EN61000-4-2, 3, 4, 5 C TP TC 020; KC KN15	41~48V o recover o recover FPUT LOAD vs TEMF 72min. each along X A 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 100VDC / 25°C / 70% N61000-3-2 Class C 1,6,8,11; BS EN/EN61 5,KN61547	PERATURE" section) (, Y, Z axes 2;IEC/BS EN/EN/AS/N A/24/24A/24B/24DA/36 7-1,KC61347-2-13 app groenly RH ((@load ≥ 60%); BS E	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48, roved :N/EN61000-3-3; Gb1 el (surge immunity Lin	N/EN/AS/NZS 61347- A/48B/54/54A/54B on 7743,GB17625.1,	
NVIRONMENT SAFETY &	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFIC VIBRATION SAFETY STAND DALI STANDARI WITHSTAND VO ISOLATION RE EMC EMISSION EMC IMMUNITY MTBF	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS DS OLTAGE SISTANCE	Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +80°C, 10 ~ 9 ±0.03%/°C (0 ~ 60° 10 ~ 500Hz, 5G 12r UL8750(type"HL")(e independent, BS EN EAC TP TC 004,GB Compliance to IEC I/P-O/P, I/P-FG, O/ Compliance to BS E EAC TP TC 020; KC Compliance to BS E EAC TP TC 020; KC Compliance to BS E EAC TP TC 020; KC 899.8K hrs min. Tel	28 ~ 34V roltage, re-power on to toltage, re-power on toltage, re-power	41~48V o recover o recover FPUT LOAD vs TEMF 72min. each along X A 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 100VDC / 25°C / 70% N61000-3-2 Class C 1,6,8,11; BS EN/EN61 5,KN61547	PERATURE" section) (, Y, Z axes 2;IEC/BS EN/EN/AS/N A/24/24A/24B/24DA/36 7-1,KC61347-2-13 app groenly RH ((@load ≥ 60%); BS E	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48, roved :N/EN61000-3-3; Gb1 el (surge immunity Lin	N/EN/AS/NZS 61347- A/48B/54/54A/54B or 7743,GB17625.1,	
NVIRONMENT	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFIC VIBRATION SAFETY STAND DALI STANDARI WITHSTAND VO ISOLATION RE EMC EMISSION EMC IMMUNITY	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS DS OLTAGE SISTANCE	Shut down output v Shut down output v Tcase=-40 ~ +90°C Tcase=+90°C 20 ~ 95% RH non-c -40 ~ +80°C, 10 ~ 9 ±0.03%/°C (0 ~ 60° 10 ~ 500Hz, 5G 12r UL8750(type"HL")(e independent, BS EN EAC TP TC 004,GB Compliance to IEC I/P-O/P;3.75KVAC I/P-O/P, I/P-FG, O/ Compliance to BS E EAC TP TC 020; KC Compliance to BS E Line-Line 4KV),EAC	28 ~ 34V roltage, re-power on to toltage, re-power on toltage, re-power	41~48V o recover o recover FPUT LOAD vs TEMF 72min. each along X A 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 100VDC / 25°C / 70% N61000-3-2 Class C 1,6,8,11; BS EN/EN61 5,KN61547	PERATURE" section) (, Y, Z axes 2;IEC/BS EN/EN/AS/N A/24/24A/24B/24DA/36 7-1,KC61347-2-13 app groenly RH ((@load ≥ 60%); BS E	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48, roved :N/EN61000-3-3; Gb1 el (surge immunity Lin	N/EN/AS/NZS 61347- A/48B/54/54A/54B or 7743,GB17625.1,	

connected to the mains.

- 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" wisted 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.

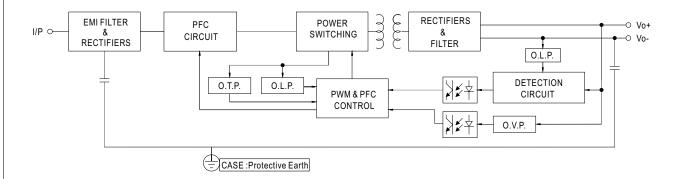
- 13. ELG-150-12(except blank/A-Type) is used for any light source that exempt from the ErP-Directive (EU) 2019/2020 requirement, for example this model could be use for signalling products(including, but not limited to road-, railway-, marineorair traffic-signalling, traffic control or airfield lamps).

 24. Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

 25. File Name: ELG-150-SPEC 2021.

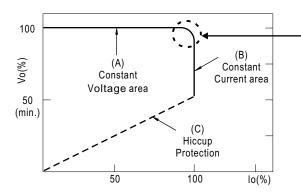
■ Block Diagram

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.

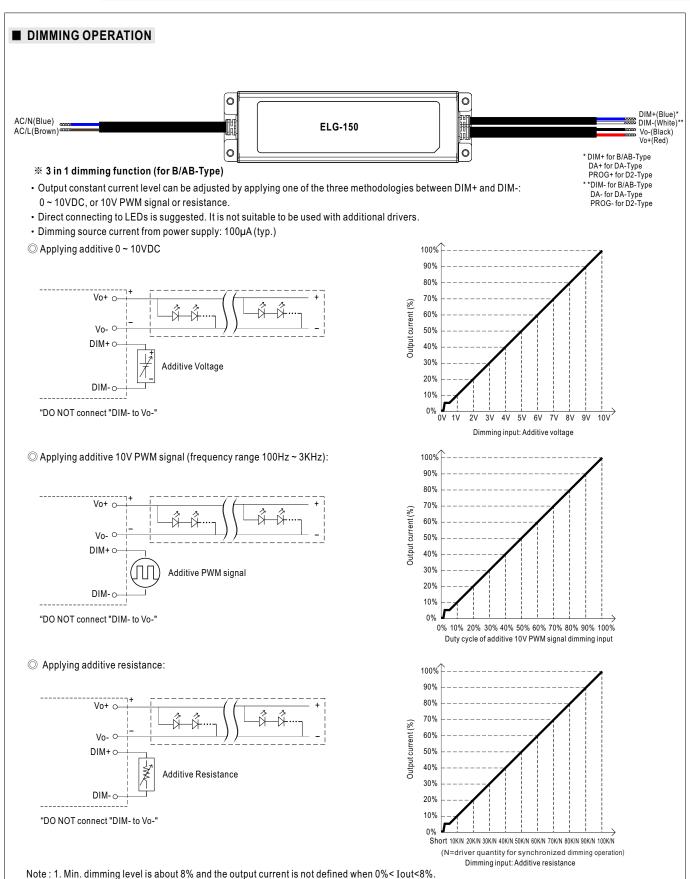


Typical output current normalized by rated current (%)

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.





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

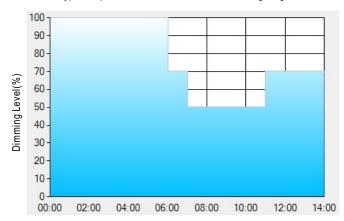
DALI Interface (primary side; for DA-Type)

- · 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



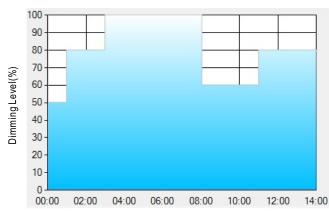
Set up for D01-Type in Smart timer dimming software program:

	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.
 - $\textbf{Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance: \\$
- [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



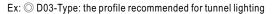
Set up for D02-Type in Smart timer dimming software program:

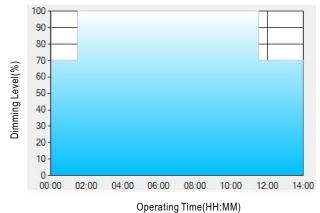
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

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.







Set up for D03-Type in Smart timer dimming software program:

	T1	T2	Т3
TIME**	01:30	11:00	
LEVEL**	70%	100%	70%

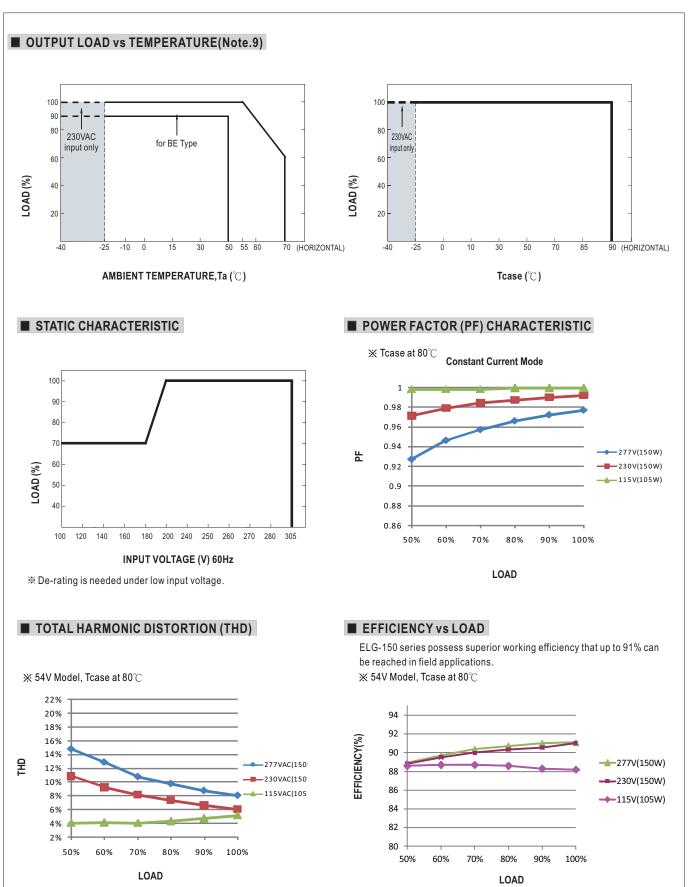
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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

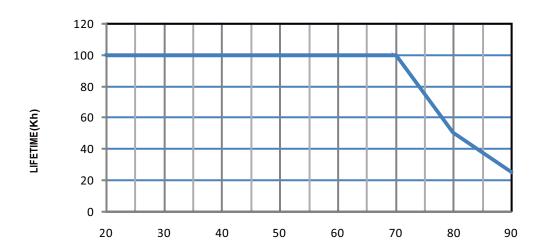
- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current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



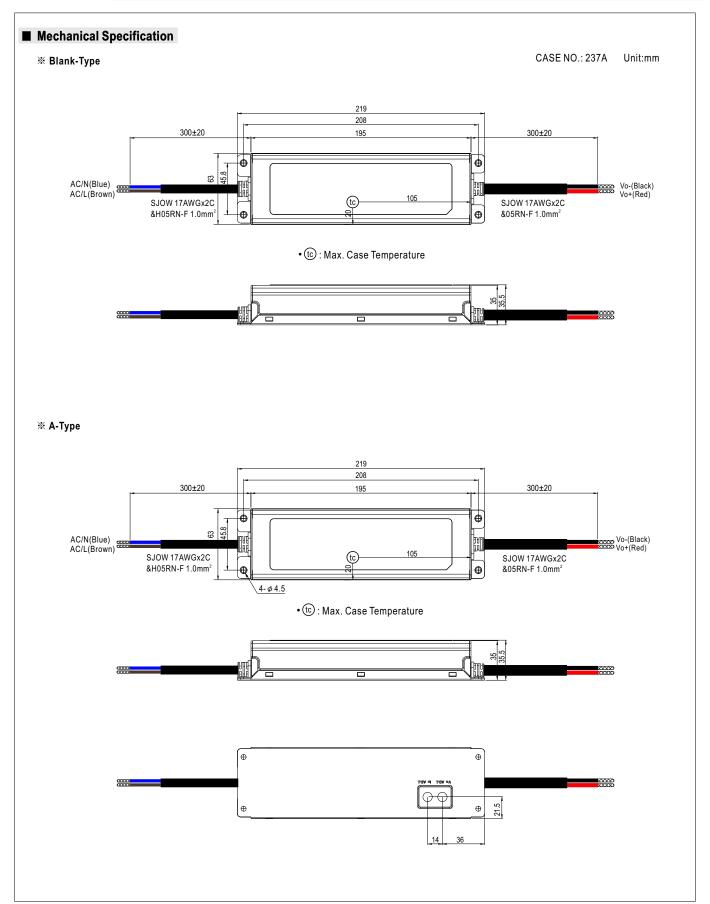


■ LIFE TIME

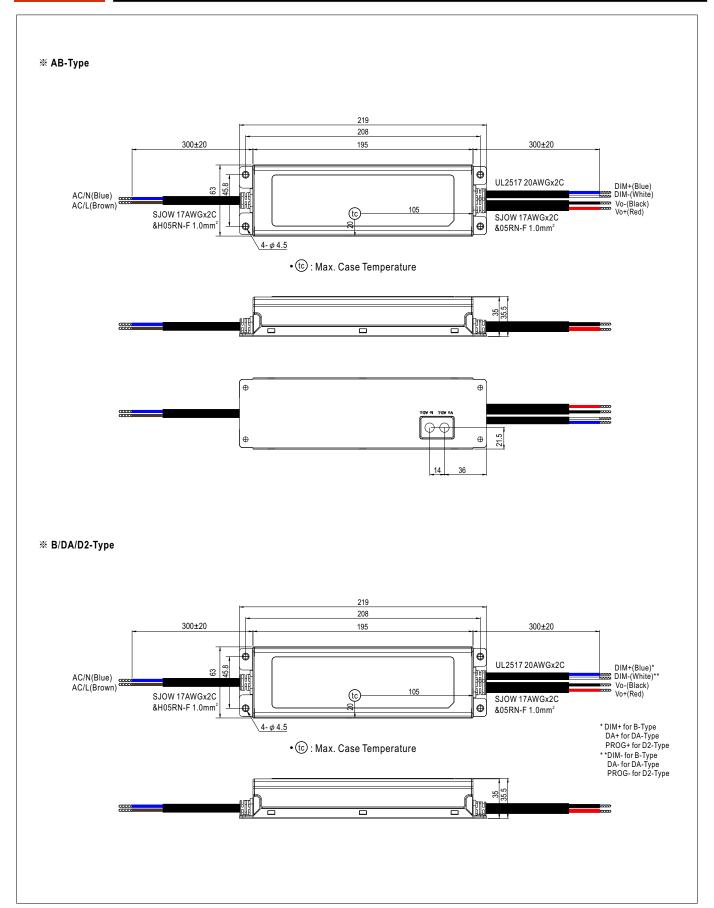


Tcase (°℃)

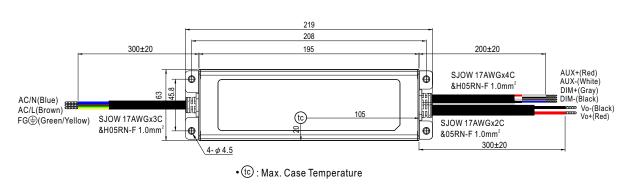






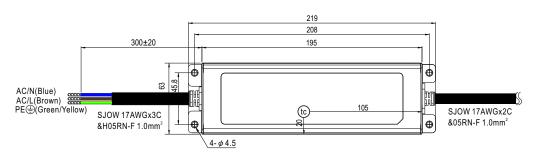


※ BE-Type





※ 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

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