





























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

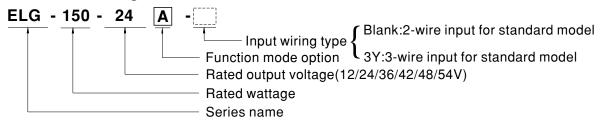
Applications

- 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 CURRENT 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						
	RATED 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	
				134.4W	134.28W	134.4W	134.4W	135W	
		(For BE Type only)							
	RIPPLE & NOISE (max.) Note.3		150mVp-p	200mVp-p	250mVp-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	
	OURDENT AR L RANGE		Adjustable for A/AB-	Type only (via the built	t-in potentiometer)				
	CURRENT ADJ	. 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%	
						1 ±0.070	1 ±0.5 /6	1 20.070	
	AUXILIARY DO		· · ·	on 11.5~15.5V)@0.3A					
	SETUP, RISE T		1600ms, 80ms/115VAC 500ms, 100ms/230VAC						
	HOLD UP TIME	(Typ.)	10ms/115VAC, 230V						
	VOLTAGE RAN	GE Note.5	100 ~ 305VAC 142 ~ 431VDC						
	102171021011	OL NOIC.U	(Please refer to "STA	ATIC CHARACTERIST	TC" section)				
	FREQUENCY F	RANGE	47 ~ 63Hz						
	DOWED FACTO	ND.	PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load						
	POWER FACTO	JK	(Please refer to "POV	VER FACTOR (PF) CH	IARACTERISTIC" sec	tion)			
	TOTAL HARMONI	C DISTORTION		50%/115VC; @load≧€ TAL HARMONIC DIS					
NDUT	FFFIGIENCY -		,		. , ,	<u> </u>	000/	040/	
NPUT	EFFICIENCY (T		88.5%	89%	90%	90%	90%	91%	
	EFFICIENCY (Typ.)(for BE Type only)			89%	89%	89%	89%	89%	
	AC CURRENT		1.7A / 115VAC 0	.9A / 230VAC 0.7A	J277VAC				
	INRUSH CURRENT(Typ.)		COLD START 65A(twidth=550µs measured at 50% Ipeak) at 230VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A 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						
	OVED CURREN	τ.	95 ~ 108%						
	OVER CURREN	OVER CURRENT		Constant current limiting, recovers automatically after fault condition is removed					
	SHORT CIRCU	SHORT CIRCUIT		va automotically often	fault condition is rom				
	SHOKT CIRCUIT			ers automatically after	Tault Collultion is Telli	oved			
ROTECTION		IT		ers automatically after			54 ~ 62V	59 ~ 68V	
ROTECTION	OVER VOLTAG		14 ~ 18V	28 ~ 34V	41 ~ 48V	47 ~ 54V	54 ~ 62V	59 ~ 68V	
PROTECTION		BE .	14 ~ 18V Shut down output vo	28 ~ 34V oltage, re-power on to	41 ~ 48V recover		54 ~ 62V	59 ~ 68V	
ROTECTION	OVER TEMPER	GE ATURE	14 ~ 18V Shut down output vo	28 ~ 34V Oltage, re-power on to Oltage, re-power on to	41 ~ 48V precover	47 ~ 54V	54 ~ 62V	59 ~ 68V	
PROTECTION	OVER TEMPER	GE ATURE IP.	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (28 ~ 34V oltage, re-power on to	41 ~ 48V precover	47 ~ 54V	54 ~ 62V	59 ~ 68V	
PROTECTION	OVER TEMPER WORKING TEM MAX. CASE TE	GE ATURE IP. MP.	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C	28 ~ 34V Oltage, re-power on to Oltage, re-power on to Please refer to "OUTF	41 ~ 48V precover	47 ~ 54V	54 ~ 62V	59 ~ 68V	
PROTECTION	OVER TEMPER	GE ATURE IP. MP.	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co	28 ~ 34V oltage, re-power on to oltage, re-power on to Please refer to "OUTF	41 ~ 48V precover	47 ~ 54V	54 ~ 62V	59~68V	
	OVER TEMPER WORKING TEM MAX. CASE TE	ATURE IP. MP. MIDITY	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C	28 ~ 34V oltage, re-power on to oltage, re-power on to Please refer to "OUTF	41 ~ 48V precover	47 ~ 54V	54 ~ 62V	59~68V	
	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM	ATURE IP. MP. MIDITY IP., HUMIDITY	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co	28 ~ 34V oltage, re-power on to oltage, re-power on to Please refer to "OUTF ondensing % RH	41 ~ 48V precover	47 ~ 54V	54 ~ 62V	59 ~ 68V	
	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM	ATURE IP. MP. MIDITY IP., HUMIDITY	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +80°C, 10 ~ 95 $\pm 0.03\%$ (C (0 ~ 60°C)	28 ~ 34V oltage, re-power on to oltage, re-power on to Please refer to "OUTF ondensing % RH	41 ~ 48V o recover o recover PUT LOAD vs TEMPE	47 ~ 54V ERATURE" section)	54 ~ 62V	59 ~ 68V	
	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEMP. COEFFI	ATURE IP. MP. MIDITY IP., HUMIDITY	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +80°C, 10 ~ 95 $\pm 0.03\%$ (0 ~ 60°C 10 ~ 500Hz, 5G 12m	28 ~ 34V oltage, re-power on to oltage, re-power on to Please refer to "OUTF ondensing % RH	41 ~ 48V o recover PUT LOAD vs TEMPE	RATURE" section) Y, Z axes			
	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEMP. COEFFI	SE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +80°C, 10 ~ 95 ±0.03%/°C (0 ~ 60°C 10 ~ 500Hz, 5G 12m UL8750(type"HL")(ex	28 ~ 34V oltage, re-power on to oltage, re-power on to Please refer to "OUTF ondensing % RH in./1cycle, period for in	41 ~ 48V o recover PUT LOAD vs TEMPE 72min. each along X,	RATURE" section) Y, Z axes	ZS 61347-1,IEC/BS EN	N/EN/AS/NZS 61347-2	
NVIRONMENT	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFI VIBRATION	SE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT	14 ~ 18V Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +80°C, 10 ~ 95 ±0.03%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12m UL8750(type"HL")(ex independent,BS EN/E	28 ~ 34V oltage, re-power on to oltage, re-power on to Please refer to "OUTF ondensing "R RH" in./1cycle, period for accept for BE-type), CSA	41 ~ 48V o recover PUT LOAD vs TEMPE 72min. each along X, x C22.2 No. 250.13-12 (for 12/12A/12B/12DA	47 ~ 54V ERATURE" section) Y, Z axes ;IEC/BS EN/EN/AS/N./24/24A/24B/24D/36	ZS 61347-1,IEC/BS EI A/36B/42/42A/42B/48	N/EN/AS/NZS 61347-2	
NVIRONMENT	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFI VIBRATION	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS	14 ~ 18V Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +80°C, 10 ~ 95 ±0.03%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12m UL8750(type"HL")(ex independent,BS EN/E EAC TP TC 004,GB19	28 ~ 34V oltage, re-power on to oltage, re-power on to Please refer to "OUTF ondensing to RH color of the RH	41 ~ 48V o recover PUT LOAD vs TEMPE 72min. each along X, x C22.2 No. 250.13-12 (for 12/12A/12B/12DA) 265 or IP67; KC61347-	47 ~ 54V ERATURE" section) Y, Z axes ;IEC/BS EN/EN/AS/N. /24/24A/24B/24D/36 -1,KC61347-2-13 app	ZS 61347-1,IEC/BS EI A/36B/42/42A/42B/48	N/EN/AS/NZS 61347-2	
NVIRONMENT	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFI VIBRATION SAFETY STANI	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +80°C, 10 ~ 95 ±0.03%/°C (0 ~ 60°C 10 ~ 500Hz, 5G 12m UL8750(type"HL")(ex independent, BS EN/E EAC TP TC 004,GB1	28 ~ 34V oltage, re-power on to oltage, re-power on to oltage, re-power on to Please refer to "OUTF ondensing "R RH" in./1cycle, period for 7 cept for BE-type), CSA EN62384,BIS IS15885(9510.1,GB19510.14; IF	72min. each along X, C22.2 No. 250.13-12 (for 12/12DA) yr request) for DA Ty	47 ~ 54V ERATURE" section) Y, Z axes ;IEC/BS EN/EN/AS/N. /24/24A/24B/24D/36 -1,KC61347-2-13 app	ZS 61347-1,IEC/BS EI A/36B/42/42A/42B/48	N/EN/AS/NZS 61347-2	
ENVIRONMENT	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFI VIBRATION SAFETY STANI DALI STANDAR	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS DS OLTAGE	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +80°C, 10 ~ 95 ±0.03%/°C (0 ~ 60°C 10 ~ 500Hz, 5G 12m UL8750(type*HL**)(ex independent, BS EN/E EAC TP TC 004, GB19 Compliance to IEC6 I/P-O/P:3.75KVAC	28 ~ 34V oltage, re-power on to oltage, re-power on to oltage, re-power on to please refer to "OUTF ondensing" RH in./1cycle, period for iccept for BE-type), CSA EN62384,BIS IS15885(9510.1,GB19510.14; IF ic2386-101,102,(207 brite).	41 ~ 48V o recover PUT LOAD vs TEMPE 72min. each along X, C22.2 No. 250.13-12 (for 12/12A/12B/12DA) P65 or IP67; KC61347- by request) for DA Tyl O/P-FG:1.5KVAC	47 ~ 54V ERATURE" section) Y, Z axes IEC/BS EN/EN/AS/N. 124/24A/24B/24DA/36 -1,KC61347-2-13 app pe only	ZS 61347-1,IEC/BS EI A/36B/42/42A/42B/48	N/EN/AS/NZS 61347-2	
ENVIRONMENT SAFETY & EMC	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFI VIBRATION SAFETY STANI DALI STANDARI WITHSTAND V	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS DS OLTAGE	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +80°C, 10 ~ 95 ±0.03%/°C (0 ~ 60°C 10 ~ 500Hz, 5G 12m UL8750(type"HL")(ex independent, BS EN/E EAC TP TC 004,GB1! Compliance to IEC6 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/F Compliance to BS EI	28 ~ 34V oltage, re-power on to please refer to "OUTF ondensing" RH olion older of the older	72min. each along X, C22.2 No. 250.13-12 (for 12/12A/12B/12DA/20) request) for DA Ty O/P-FG:1.5KVAC	47 ~ 54V ERATURE" section) Y, Z axes IEC/BS EN/EN/AS/N. (24/24A/24B/24DA/36-1,KC61347-2-13 app pe only	ZS 61347-1,IEC/BS EN A/36B/42/42A/42B/48 roved	N/EN/AS/NZS 61347-2 A/48B/54/54A/54B on	
ENVIRONMENT	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFI VIBRATION SAFETY STANI DALI STANDARI WITHSTAND VI	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS DS OLTAGE SISTANCE	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +80°C, 10 ~ 95 ±0.03%/°C (0 ~ 60°C 10 ~ 500Hz, 5G 12m Ul8750(type"HL")(ex independent, BS EN/E EAC TP TC 004, GB1! Compliance to IEC6 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/F Compliance to BS EI EAC TP TC 020; KC Compliance to BS EI	28 ~ 34V oltage, re-power on to oltage, re-power on to oltage, re-power on to Please refer to "OUTF ondensing % RH oliani/1cycle, period for icept for BE-type), CSA 2N62384,BIS IS15885(9510.1,GB19510.14; IF 2386-101,102,(207 b I/P-FG:2.0KVAC P-FG:100M Ohms / 50 N/EN55015,BS EN/EN KN15,KN61547 N/EN61000-4-2,3,4,5,4	41 ~ 48V recover recover PUT LOAD vs TEMPE 72min. each along X, x C22.2 No. 250.13-12 (for 12/12A/12B/12DA/ P65 or IP67; KC61347- by request) for DA Ty O/P-FG:1.5KVAC 100VDC / 25°C / 70% R 161000-3-2 Class C (6,8,11; BS EN/EN615	A7 ~ 54V ERATURE" section) Y, Z axes ;IEC/BS EN/EN/AS/N. (24/24A/24B/24DA/36-1,KC61347-2-13 app pe only H @load ≥ 60%); BS E	ZS 61347-1,IEC/BS ENA/36B/42/42A/42B/48 roved	N/EN/AS/NZS 61347-2 A/48B/54/54A/54B on 7743,GB17625.1,	
NVIRONMENT	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	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS DS OLTAGE SISTANCE	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +80°C, 10 ~ 95 ±0.03%/°C (0 ~ 60°C 10 ~ 500Hz, 5G 12m UL8750(type"HL")(ex independent, BS EN/E EAC TP TC 004,GB1! Compliance to IEC6 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/F Compliance to BS EI EAC TP TC 020; KC Compliance to BS EI EAC TP TC 020; KC Compliance to BS EI Line-Line 4KV),EAC	28 ~ 34V oltage, re-power on to oltage, re-power oltage, re-powe	41 ~ 48V o recover PUT LOAD vs TEMPE 72min. each along X, x C22.2 No. 250.13-12 (for 12/12A/12B/12DA) P05 or IP67; KC61347- p) request) for DA Tyl O/P-FG:1.5KVAC 00VDC / 25°C / 70% R 161000-3-2 Class C (6,8,11; BS EN/EN615 ,KN61547	A7 ~ 54V ERATURE" section) Y, Z axes ;IEC/BS EN/EN/AS/N; (24/24A/24B/24DA/36-1,KC61347-2-13 app) pe only EH @load ≥ 60%); BS E	ZS 61347-1,IEC/BS ENA/36B/42/42A/42B/48 roved	N/EN/AS/NZS 61347-2 A/48B/54/54A/54B on 7743,GB17625.1,	
SAFETY &	OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUM STORAGE TEM TEMP. COEFFIC VIBRATION SAFETY STANI DALI STANDARI WITHSTAND VI ISOLATION RE EMC EMISSION EMC IMMUNITY MTBF	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS DS OLTAGE SISTANCE	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +80°C, 10 ~ 95 ±0.03%/°C (0 ~ 60°C 10 ~ 500Hz, 5G 12m U8750(type"HL")(ex independent, BS EN/E EAC TP TC 004, GB1! Compliance to IEC6 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/F Compliance to BS EI EAC TP TC 020; KC Compliance to BS EI Line-Line 4KV), EAC 899.8K hrs min. Telo	28 ~ 34V oltage, re-power on to oltage, re-power on to oltage, re-power on to oltage, re-power on to Please refer to "OUTF ondensing % RH olimin/1cycle, period for iccept for BE-type), CSA 2N62384,BIS IS15885(9510.1,GB19510.14; IF 2386-101,102,(207 b I/P-FG:2.0KVAC P-FG:100M Ohms / 50 N/EN55015,BS EN/EN KN15,KN61547 N/EN61000-4-2,3,4,5,t TPTC 020; KC KN15 ordia SR-332 (Bellcore	41 ~ 48V o recover PUT LOAD vs TEMPE 72min. each along X, x C22.2 No. 250.13-12 (for 12/12A/12B/12DA) P05 or IP67; KC61347- p) request) for DA Tyl O/P-FG:1.5KVAC 00VDC / 25°C / 70% R 161000-3-2 Class C (6,8,11; BS EN/EN615 ,KN61547	A7 ~ 54V ERATURE" section) Y, Z axes ;IEC/BS EN/EN/AS/N; (24/24A/24B/24DA/36-1,KC61347-2-13 app) pe only EH @load ≥ 60%); BS E	ZS 61347-1,IEC/BS ENA/36B/42/42A/42B/48 roved	N/EN/AS/NZS 61347-: A/48B/54/54A/54B on 7743,GB17625.1,	
ENVIRONMENT	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	GE ATURE IP. MP. MIDITY IP., HUMIDITY CIENT DARDS DS OLTAGE SISTANCE	14 ~ 18V Shut down output vo Shut down output vo Tcase=-40 ~ +90°C (Tcase=+90°C 20 ~ 95% RH non-co -40 ~ +80°C, 10 ~ 95 ±0.03%/°C (0 ~ 60°C 10 ~ 500Hz, 5G 12m UL8750(type"HL")(ex independent, BS EN/E EAC TP TC 004,GB1! Compliance to IEC6 I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/F Compliance to BS EI EAC TP TC 020; KC Compliance to BS EI EAC TP TC 020; KC Compliance to BS EI Line-Line 4KV),EAC	28 ~ 34V oltage, re-power on to oltage, re-power on to oltage, re-power on to oltage, re-power on to Please refer to "OUTF ondensing % RH olimin/1cycle, period for iccept for BE-type), CSA 2N62384,BIS IS15885(9510.1,GB19510.14; IF 2386-101,102,(207 b I/P-FG:2.0KVAC P-FG:100M Ohms / 50 N/EN55015,BS EN/EN KN15,KN61547 N/EN61000-4-2,3,4,5,t TP TC 020; KC KN15 ordia SR-332 (Bellcord W*H)	41 ~ 48V o recover PUT LOAD vs TEMPE 72min. each along X, x C22.2 No. 250.13-12 (for 12/12A/12B/12DA) P05 or IP67; KC61347- p) request) for DA Tyl O/P-FG:1.5KVAC 00VDC / 25°C / 70% R 161000-3-2 Class C (6,8,11; BS EN/EN615 ,KN61547	A7 ~ 54V ERATURE" section) Y, Z axes ;IEC/BS EN/EN/AS/N; (24/24A/24B/24DA/36-1,KC61347-2-13 app) pe only EH @load ≥ 60%); BS E	ZS 61347-1,IEC/BS ENA/36B/42/42A/42B/48 roved	N/EN/AS/NZS 61347-2 A/48B/54/54A/54B on 7743,GB17625.1,	

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.11f & 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 Toase, particularly (c) 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

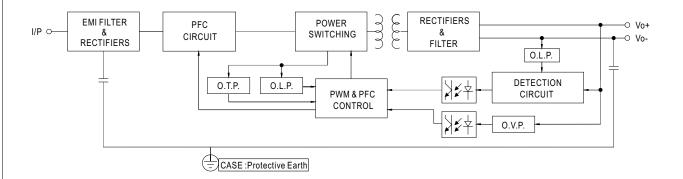
 12. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.
- connected to the mains.
- 13. ELG-150-12(except blank/A-Type) is used for any light source that exempt from the ErP-Directive (EU) 2019/2020 requirement, for example this model could be 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.

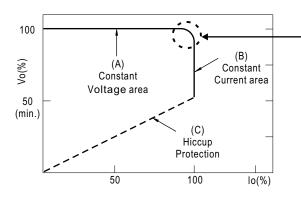
■ Block Diagram

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.

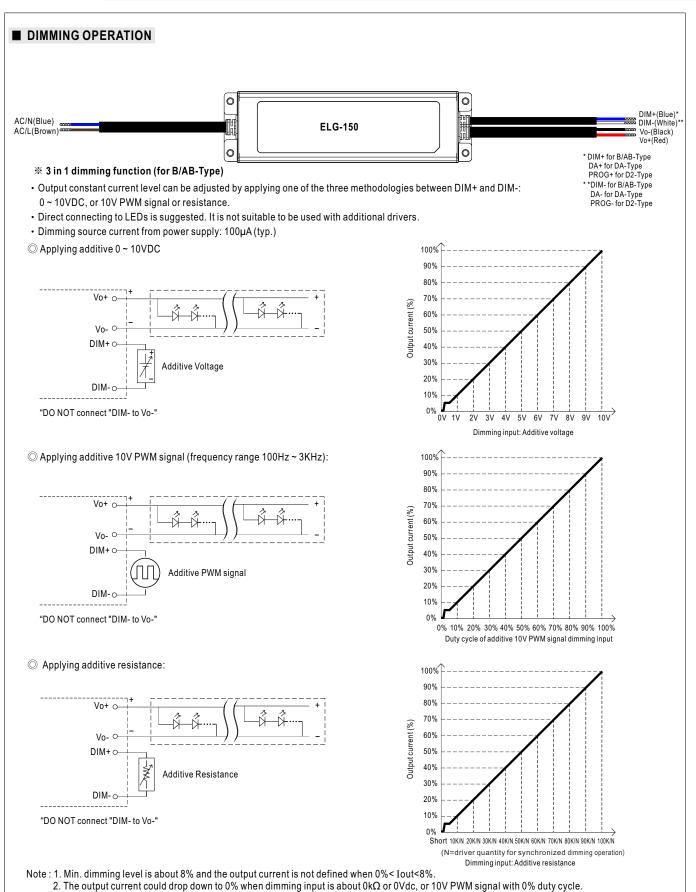


Typical output current normalized by rated current (%)

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.





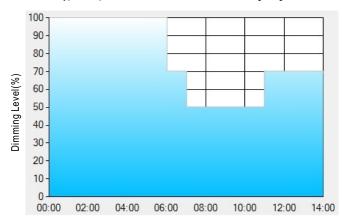
DALI Interface (primary side; for DA-Type)

- · 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:

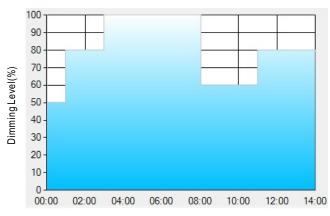
	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

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



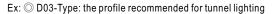
Set up for D02-Type in Smart timer dimming software program:

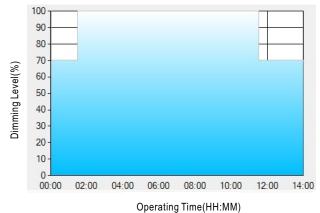
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

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.







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

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

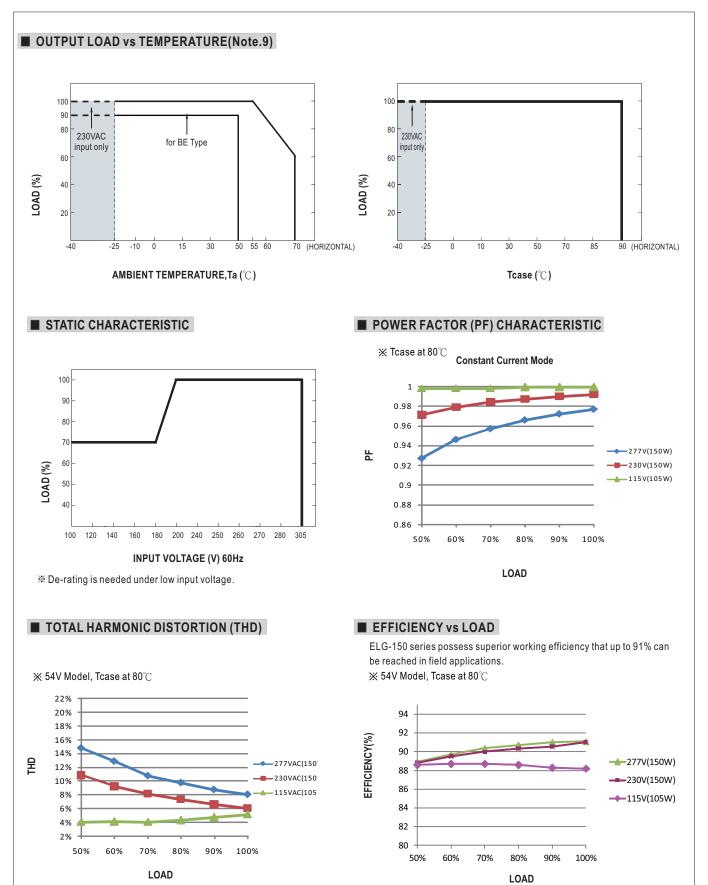
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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

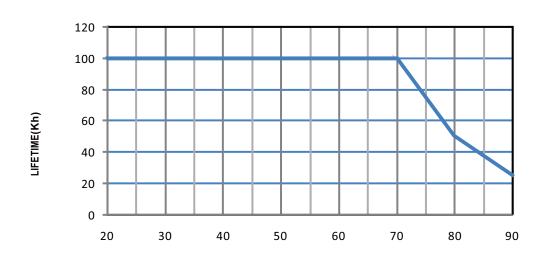
- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current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



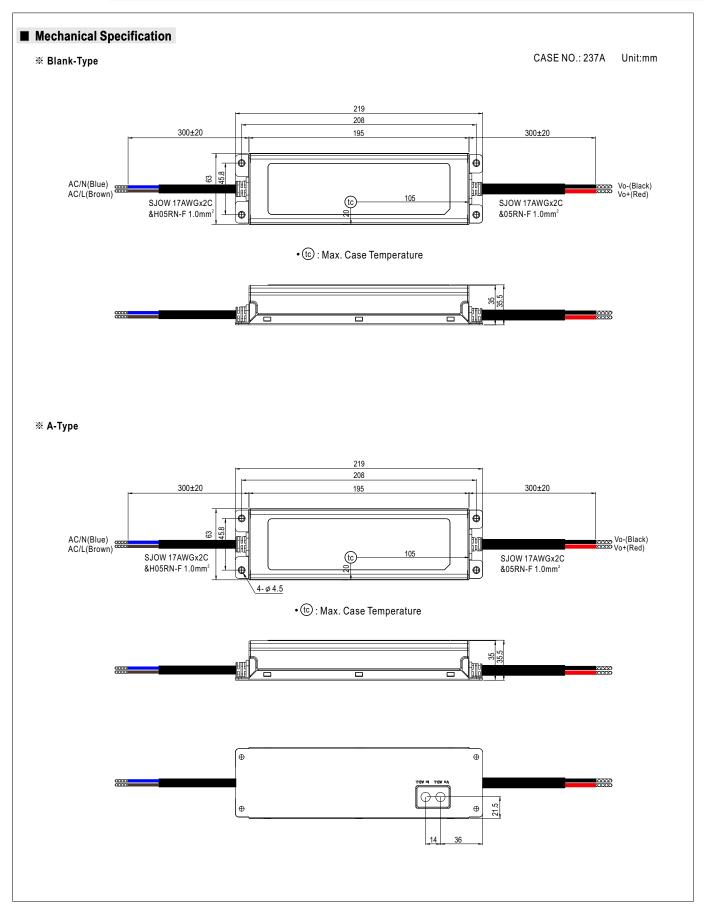




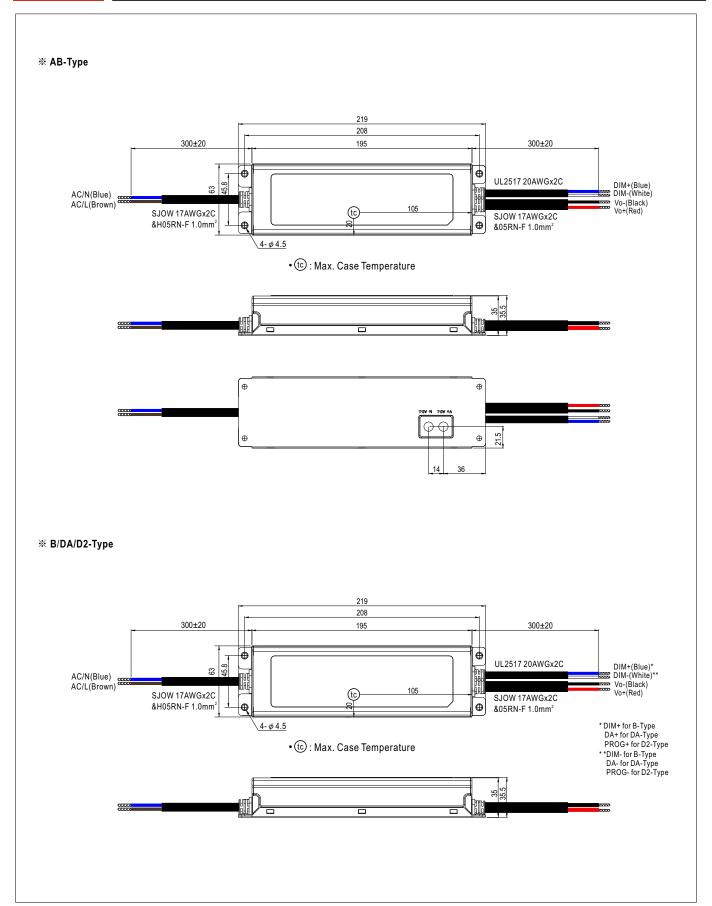


Tcase (°℃)

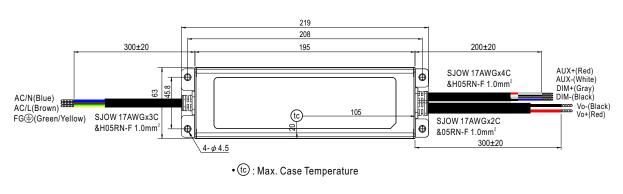






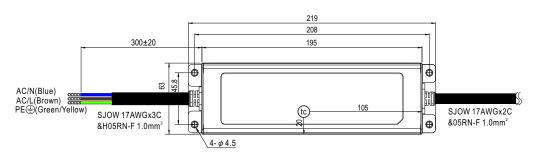


※ BE-Type





※ 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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

MEAN WELL:

<u>ELG-150-12</u> <u>ELG-150-54</u> <u>ELG-150-24B</u> <u>ELG-150-54A</u> <u>ELG-150-36A</u> <u>ELG-150-42A</u> <u>ELG-150-12B</u> <u>ELG-150-48A</u> <u>ELG-150-36</u> <u>ELG-150-42</u> <u>ELG-150-36B</u> <u>ELG-150-24</u> <u>ELG-150-24A</u> <u>ELG-150-54B</u> <u>ELG-150-48B</u> <u>ELG-150-48B</u> <u>ELG-150-42B</u> <u>ELG-150-42B</u> <u>ELG-150-24B-3Y</u>