























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

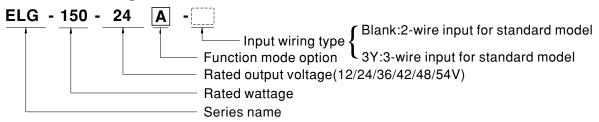
Applications

- 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	By request

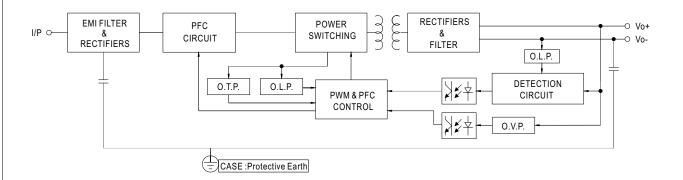
SPECIFICATION

C VOLTAGE DISTANT CURRENT REGION Note.2 ATED CURRENT ATED CURRENT (for BE Type only) (For BE Type) (For BE Type only) IPPLE & NOISE (max.) Note.3 OLTAGE ADJ. RANGE ULTAGE TOLERANCE Note.4 NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 DLD UP TIME (Typ.) OLTAGE RANGE Note.5 REQUENCY RANGE	10A 8A 100VAC ~ 180VAC 84W 200VAC ~ 305VAC 120W 96W 150mVp-p Adjustable for A/AB 10.8 ~ 13.2V Adjustable for A/AB 5 ~ 10A ±3.0% ±0.5% ±2.0% Nominal 15V(devia	21.6 ~ 26.4V	32.4 ~ 39.6V	42V 21 ~ 42V 3.57A 3.2A 105W 150W 134.4W 250mVp-p	48V 24 ~ 48V 3.13A 2.8A 105W 150.2W 134.4W 250mVp-p	54V 27 ~ 54V 2.8A 2.5A 105W						
ATED CURRENT ATED CURRENT (for BE Type only) ATED OWER (For All the Types) (For BE Type only) IPPLE & NOISE (max.) Note.3 OLTAGE ADJ. RANGE OLTAGE TOLERANCE Note.4 INE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 OLTAGE RANGE Note.5 REQUENCY RANGE	10A 8A 100VAC ~ 180VAC 84W 200VAC ~ 305VAC 120W 96W 150mVp-p Adjustable for A/AB 10.8 ~ 13.2V Adjustable for A/AB 5 ~ 10A ±3.0% ±0.5% ±2.0% Nominal 15V(devia	150W 150W 150W 134.4W 200mVp-p -Type only (via the but 21.6 ~ 26.4V -Type only (via the but 3.2 ~ 6.25A ±3.0%	4.17A 3.73A 105W 150.1W 134.28W 250mVp-p uilt-in potentiometer) 32.4 ~ 39.6V uilt-in potentiometer)	3.57A 3.2A 105W 150W 134.4W 250mVp-p	3.13A 2.8A 105W 150.2W 134.4W	2.8A 2.5A 105W 151.2W 135W						
ATED CURRENT (for BE Type only) ATED OWER (For All the Types) (Except for BE Type) (For BE Type only) IPPLE & NOISE (max.) Note.3 OLTAGE ADJ. RANGE OLTAGE TOLERANCE Note.4 INE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) OLTAGE RANGE Note.5 REQUENCY RANGE	8A 100VAC ~ 180VAC 84W 200VAC ~ 305VAC 120W 96W 150mVp-p Adjustable for A/AB 10.8 ~ 13.2V Adjustable for A/AB 5 ~ 10A ±3.0% ±0.5% ±2.0% Nominal 15V(devia	15.6A 105W 150W 134.4W 200mVp-p -Type only (via the but 21.6 ~ 26.4V -Type only (via the but 3.2 ~ 6.25A ±3.0%	3.73A 105W 150.1W 134.28W 250mVp-p uilt-in potentiometer) 32.4 ~ 39.6V uilt-in potentiometer)	3.2A 105W 150W 134.4W 250mVp-p	2.8A 105W 150.2W 134.4W	2.5A 105W 151.2W 135W						
ATED OWER (For All the Types) (Except for BE Type) (For BE Type only) IPPLE & NOISE (max.) Note.3 OLTAGE ADJ. RANGE URRENT ADJ. RANGE OLTAGE TOLERANCE Note.4 NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) OLTAGE RANGE Note.5 REQUENCY RANGE	100VAC ~ 180VAC 84W 200VAC ~ 305VAC 120W 96W 150mVp-p Adjustable for A/AB 10.8 ~ 13.2V Adjustable for A/AB 5 ~ 10A ±3.0% ±2.0% Nominal 15V(devia	150W 150W 134.4W 200mVp-p -Type only (via the but 21.6 ~ 26.4V -Type only (via the but 3.2 ~ 6.25A ±3.0%	105W 150.1W 134.28W 250mVp-p iilt-in potentiometer) 32.4 ~ 39.6V iilt-in potentiometer)	105W 150W 134.4W 250mVp-p	105W 150.2W 134.4W	105W 151.2W 135W						
ATED OWER (Except for BE Type) (For BE Type only) IPPLE & NOISE (max.) Note.3 OLTAGE ADJ. RANGE URRENT ADJ. RANGE OLTAGE TOLERANCE Note.4 NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) OLTAGE RANGE Note.5 REQUENCY RANGE	84W 200VAC ~ 305VAC 120W 96W 150mVp-p Adjustable for A/AB 10.8 ~ 13.2V Adjustable for A/AB 5 ~ 10A ±3.0% ±0.5% ±2.0% Nominal 15V(devia	150W 134.4W 200mVp-p -Type only (via the buth only 121.6 ~ 26.4V -Type only (via the buth only 13.2 ~ 6.25A ±3.0%	150.1W 134.28W 250mVp-p silt-in potentiometer) 32.4 ~ 39.6V silt-in potentiometer)	150W 134.4W 250mVp-p	150.2W 134.4W	151.2W 135W						
ATED OWER (Except for BE Type) (For BE Type only) IPPLE & NOISE (max.) Note.3 OLTAGE ADJ. RANGE URRENT ADJ. RANGE OLTAGE TOLERANCE Note.4 NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) OLTAGE RANGE Note.5 REQUENCY RANGE	200VAC ~ 305VAC 120W 96W 150mVp-p Adjustable for A/AB 10.8 ~ 13.2V Adjustable for A/AB 5 ~ 10A ±3.0% ±0.5% ±2.0% Nominal 15V(devia	150W 134.4W 200mVp-p -Type only (via the buth only 121.6 ~ 26.4V -Type only (via the buth only 13.2 ~ 6.25A ±3.0%	150.1W 134.28W 250mVp-p silt-in potentiometer) 32.4 ~ 39.6V silt-in potentiometer)	150W 134.4W 250mVp-p	150.2W 134.4W	151.2W 135W						
(Except for BE Type) (For BE Type only) PPLE & NOISE (max.) Note.3 OLTAGE ADJ. RANGE ULTAGE TOLERANCE Note.4 NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) OLTAGE RANGE REQUENCY RANGE	120W 96W 150mVp-p Adjustable for A/AB 10.8 ~ 13.2V Adjustable for A/AB 5 ~ 10A ±3.0% ±0.5% ±2.0% Nominal 15V(devia	134.4W 200mVp-p -Type only (via the buth 21.6 ~ 26.4V -Type only (via the buth 3.2 ~ 6.25A ±3.0%	134.28W 250mVp-p iilt-in potentiometer) 32.4 ~ 39.6V iilt-in potentiometer)	134.4W 250mVp-p	134.4W	135W						
(Except for BE Type) (For BE Type only) IPPLE & NOISE (max.) Note.3 OLTAGE ADJ. RANGE ULTAGE TOLERANCE Note.4 NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) OLTAGE RANGE Note.5 REQUENCY RANGE	96W 150mVp-p Adjustable for A/AB 10.8 ~ 13.2V Adjustable for A/AB 5 ~ 10A ±3.0% ±0.5% ±2.0% Nominal 15V(devia	134.4W 200mVp-p -Type only (via the buth 21.6 ~ 26.4V -Type only (via the buth 3.2 ~ 6.25A ±3.0%	134.28W 250mVp-p iilt-in potentiometer) 32.4 ~ 39.6V iilt-in potentiometer)	134.4W 250mVp-p	134.4W	135W						
PPLE & NOISE (max.) Note.3 OLTAGE ADJ. RANGE URRENT ADJ. RANGE OLTAGE TOLERANCE Note.4 NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) OLTAGE RANGE Note.5	150mVp-p Adjustable for A/AB 10.8 ~ 13.2V Adjustable for A/AB 5 ~ 10A ±3.0% ±0.5% ±2.0% Nominal 15V(devia	200mVp-p -Type only (via the but 21.6 ~ 26.4V -Type only (via the but 3.2 ~ 6.25A ±3.0%	250mVp-p iilt-in potentiometer) 32.4 ~ 39.6V iilt-in potentiometer)	250mVp-p								
PPLE & NOISE (max.) Note.3 OLTAGE ADJ. RANGE URRENT ADJ. RANGE OLTAGE TOLERANCE Note.4 NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) OLTAGE RANGE Note.5	150mVp-p Adjustable for A/AB 10.8 ~ 13.2V Adjustable for A/AB 5 ~ 10A ±3.0% ±0.5% ±2.0% Nominal 15V(devia	200mVp-p -Type only (via the but 21.6 ~ 26.4V -Type only (via the but 3.2 ~ 6.25A ±3.0%	250mVp-p iilt-in potentiometer) 32.4 ~ 39.6V iilt-in potentiometer)	250mVp-p								
OLTAGE ADJ. RANGE URRENT ADJ. RANGE OLTAGE TOLERANCE Note.4 NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) OLTAGE RANGE Note.5	Adjustable for A/AB 10.8 ~ 13.2V Adjustable for A/AB 5 ~ 10A ±3.0% ±0.5% ±2.0% Nominal 15V(devia	-Type only (via the bu 21.6 ~ 26.4V -Type only (via the bu 3.2 ~ 6.25A ±3.0%	32.4 ~ 39.6V illt-in potentiometer)		200πγρ ρ	350mVp-p						
JRRENT ADJ. RANGE OLTAGE TOLERANCE Note.4 NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) OLTAGE RANGE Note.5 REQUENCY RANGE	10.8 ~ 13.2V Adjustable for A/AB 5 ~ 10A ±3.0% ±0.5% ±2.0% Nominal 15V(devia	21.6 ~ 26.4V -Type only (via the but 3.2 ~ 6.25A ±3.0%	32.4 ~ 39.6V nilt-in potentiometer)	37.8 ~ 46.2V		Adjustable for A/AB-Type only (via the built-in potentiometer)						
OLTAGE TOLERANCE Note.4 NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 DLD UP TIME (Typ.) DLTAGE RANGE Note.5 REQUENCY RANGE	Adjustable for A/AB 5 ~ 10A ±3.0% ±0.5% ±2.0% Nominal 15V(devia	3.2 ~ 6.25A ±3.0%	ilt-in potentiometer)	37.8 ~ 46.2V		1						
OLTAGE TOLERANCE Note.4 NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 DLD UP TIME (Typ.) DLTAGE RANGE Note.5 REQUENCY RANGE	5 ~ 10A ±3.0% ±0.5% ±2.0% Nominal 15V(devia	3.2 ~ 6.25A ±3.0%			43.2 ~ 52.8V	49 ~ 58V						
NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) DLTAGE RANGE Note.5 REQUENCY RANGE	±3.0% ±0.5% ±2.0% Nominal 15V(devia	±3.0%	2 1 ~ 4 17A	Adjustable for A/AB-Type only (via the built-in potentiometer)								
NE REGULATION DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) DLTAGE RANGE Note.5 REQUENCY RANGE	±0.5% ±2.0% Nominal 15V(devia			1.8 ~ 3.57A	1.56 ~ 3.13A	1.4 ~ 2.8A						
DAD REGULATION UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 DLD UP TIME (Typ.) DLTAGE RANGE Note.5 REQUENCY RANGE	±2.0% Nominal 15V(devia	±0.5%	±2.5%	±2.5%	±2.0%	±2.0%						
UXILIARY DC OUTPUT ETUP, RISE TIME Note.6 DLD UP TIME (Typ.) DLTAGE RANGE Note.5 REQUENCY RANGE	Nominal 15V(devia	_0.070	±0.5%	±0.5%	±0.5%	±0.5%						
ETUP, RISE TIME Note.6 DLD UP TIME (Typ.) DLTAGE RANGE Note.5 REQUENCY RANGE	· ·	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%						
OLD UP TIME (Typ.) DLTAGE RANGE Note.5 REQUENCY RANGE	1600ms, 80ms/115\	Nominal 15V(deviation 11.5~15.5V)@0.3A for BE-Type only										
DLTAGE RANGE Note.5 REQUENCY RANGE		1600ms, 80ms/115VAC 500ms, 100ms/230VAC										
DLTAGE RANGE Note.5 REQUENCY RANGE	10ms/115VAC, 230	VAC										
REQUENCY RANGE	100 ~ 305VAC	142 ~ 431VDC										
	100 ~ 305VAC											
	47 ~ 63Hz		,									
OWER FACTOR	PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)											
TAL HARMONIC DISTORTION	THD< 20%(@load≧50%/115VC; @load≧60%/230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)											
	<u>'</u>					1						
FICIENCY (Typ.)	88%	89%	90%	90%	90%	91%						
FICIENCY (Typ.)(for BE Type only)	86%	87%	88%	88%	88%	89%						
CCURRENT	1.7A / 115VAC 0.9A / 230VAC 0.7A / 277VAC											
RUSH CURRENT(Typ.)	COLD START 65A(twidth=550μs measured at 50% Ipeak) at 230VAC; Per NEMA 410											
AX. No. of PSUs on 16A	2 it (-iit basels ft P) (6 it (-iit) 1 (1 0) 1000) (4 0											
RCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC											
AKAGE CURRENT	<0.75mA / 277VAC											
O LOAD / STANDRY	No load power consumption < 0.5W for Blank / A / Dx / D2-Tyne											
OWER CONSUMPTION												
VER CURRENT												
JORT CIRCUIT												
TORT CIRCUIT					54 601/	F0 . 69V						
VER VOLTAGE				47 ~ 54 V	54 ~ 62 V	59 ~ 68V						
/ED TELLDED LT. IDE												
	Shut down output voltage, re-power on to recover											
ORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)											
AX. CASE TEMP.	Tcase=+90°C											
ORKING HUMIDITY	20 ~ 95% RH non-c	ondensing										
TORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH											
EMP. COEFFICIENT	±0.03%/°C (0 ~ 60°	C)										
BRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes											
	• • • • • • • • • • • • • • • • • • • •											
	IEC/EN/AS/NZS 61347-1,IEC/EN/AS/NZS 61347-2-13 independent,											
AFETY STANDARDS	EN62384,BIS IS15885(for 12/12B/12DA/24/24B/24DA/36A/42/42A/48A/54 only),											
AL L STANDADDS	· ·	·	·									
				DU								
	/P-O/P, /P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH											
AC EMISSION	· ·	·		*								
MC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV),EAC TP TC											
TBF	899.8K hrs min. Telcordia SR-332 (Bellcore) 313.66Khrs min. MIL-HDBK-217F (25℃)											
MENSION	219*63*35.5mm (L*	W*H)										
ACKING	0.95Kg; 16pcs/16.0	kg/0.77CUFT										
1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. Please refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage under rated power delivery. 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												
VEF VEF VEF OR OR OR OR ITOR EMF BRA ITH OLA OLA ITH OLA OLA ITH OLA ITH OLA ITH OLA ITH OLA OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA ITH OLA OLA OLA ITH OLA OLA OLA OLA OLA OLA OLA OLA OLA OLA	DAD / STANDBY ER CONSUMPTION R CURRENT R CIRCUIT R VOLTAGE R TEMPERATURE KING TEMP. CASE TEMP. KING HUMIDITY COEFFICIENT ATION TY STANDARDS STANDARDS STAND VOLTAGE ATION RESISTANCE MISSION IMMUNITY ING parameters NOT special base refer to "DRIVING Meder rated power delivery.	No load power constand power constan	No load power consumption <0.5W for B Standby power consumption <0.5W for B 95 ~ 108% Constant current limiting, recovers autoration RT CIRCUIT Hiccup mode, recovers automatically after RVOLTAGE Standby power consumption <0.5W for B 95 ~ 108% Constant current limiting, recovers autoration 14 ~ 18V 28 ~ 34V Shut down output voltage, re-power on Shut down output voltage, re-power on Tcase=-40 ~ +90°C (Please refer to "OU CASE TEMP. Tcase=+90°C KING HUMIDITY 20 ~ 95% RH non-condensing RAGE TEMP, HUMIDITY 10 ~ 500Hz, 5G 12min./1cycle, period for UL8750(type"HL")(except for BE-type IEC/EN/AS/NZS 61347-1,IEC/EN/A EN62384,BIS IS15885(for 12/12B/1 EAC TP TC 004,GB19510.1,GB195 STANDARDS Compliance to IEC62386-101,102,2 STAND VOLTAGE I/P-O/P,I/P-FG, O/P-FG:100M Ohms / EMISSION Compliance to EN55015,EN61000-3-2 (Compliance to EN55015,EN61000-3-2 (Compliance to EN61000-4-2,3,4,5,6,8,11; 899.8K hrs min. Telcordia SR-332 (Belloc NSION 219*63*35.5mm (L*W*H) UL9*COLORED Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are measured at 230VAC in Parameters NOT specially mentioned are me	No load power consumption <0.5W for Blank / A / Dx / D2-Typ Standby power consumption <0.5W for B lank / A / Dx / D2-Typ Standby power consumption <0.5W for B / AB / DA-Type 95 ~ 108% Constant current limiting, recovers automatically after fault condition is reduced by the constant current limiting, recovers automatically after fault condition is reduced by the constant current limiting, recovers automatically after fault condition is reduced by the constant current limiting, recovers automatically after fault condition is reduced by the constant current limiting, recovers automatically after fault condition is reduced by the constant current limiting, recovers automatically after fault condition is reduced by the constant current limiting, recovers automatically after fault condition is reduced by the constant current limiting, recovers automatically after fault condition is reduced by the constant current limiting, recovers automatically after fault condition is reduced by the constant current limiting, recovers automatically after fault condition is reduced by the constant current limiting, recovers automatically after fault condition is reduced by the constant current limiting, recovers automatically after fault condition is reduced by the constant current limiting, recovers automatically after fault condition is reduced by the constant current limiting, recovers automatically after fault condition is reduced by the constant current and current limiting, recovers automatically after fault condition is reduced by the constant current and current limiting, recovers automatically after fault condition is reduced by the condition is reduced by the current and current and passe refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant current and current and power delivery.	No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA-Type 8 CURRENT 95 ~ 108%	No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / AB / DA-Type 95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed RT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed 14 ~ 18V 28 ~ 34V 41 ~ 48V 47 ~ 54V 54 ~ 62V Shut down output voltage, re-power on to recover I TEMPERATURE Shut down output voltage, re-power on to recover KING TEMP. Tcase=40 ~ +90°C (Please refer to *OUTPUT LOAD vs TEMPERATURE* section) CASE TEMP. Tcase=490°C KING HUMIDITY 40 ~ +80°C, 10 ~ 95% RH COEFFICIENT ±0.03%/C (0 ~ 60°C) ATION 10 ~ 500Hz, 5G 12min /1cycle, period for 72min. each along X, Y, Z axes UL8750(type*HL*")(except for BE-type), CSA C22.2 No. 250.13-12; IEC/EN/AS/NZS 61347-1,IEC/EN/AS/NZS 61347-2-13 independent, EN62384,BIS IS15885(for 12/12B/12DA/24/24B/24DA/36A/42/42A/48A/54 only), EAC TP TC 004,GB19510.1,GB19510.14; IP65 or IP67 approved STANDARDS Compliance to IEC62386-101,102,207 for DA-Type only STAND VOLTAGE //P-O/P.3.75KVAC //P-FG:2.0KVAC O/P-FG:1.5KVAC ATION RESISTANCE //P-O/P.3.75KVAC //P-FG:100M Ohms / 500VDC / 25°C / 70% RH LIMINUNITY Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3; GB17743 , GB17625.1,EA/ IMMUNITY Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3; GB17743 , GB17625.1,EA/ IMMUNITY Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3; GB17743 , GB17625.1,EA/ IMMUNITY Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3; GB17743 , GB17625.1,EA/ IMMUNITY Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3; GB17743 , GB17625.1,EA/ IMMUNITY Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3; GB17743 , GB17625.1,EA/ IMMUNITY Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3; GB17743 , GB17625.1,EA/ IMMUNITY Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3; GB17743 , GB17625.1,EA/ IMMUNITY Compliance to EN55015,EN61000-3-2						

- 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).

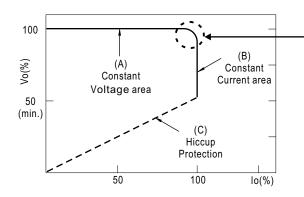
■ Block Diagram

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.

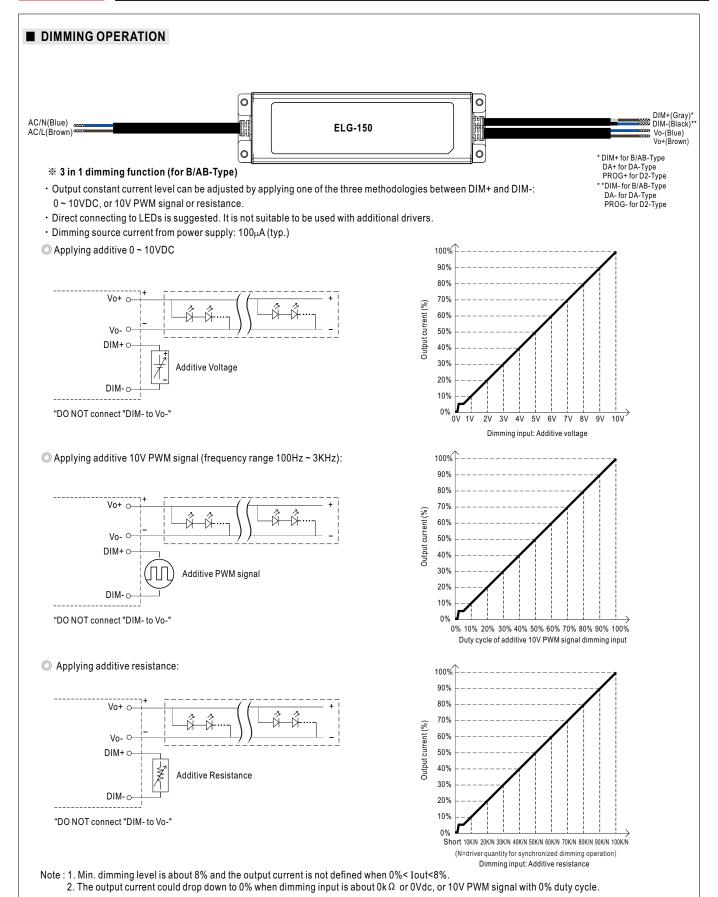


Typical output current normalized by rated current (%)

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.







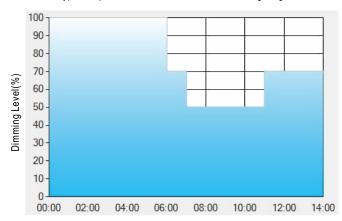
DALI Interface (primary side; for DA-Type)

- · 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:

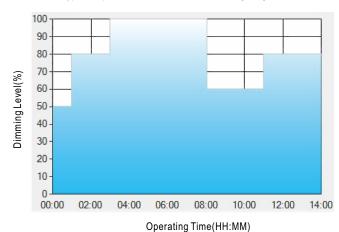
	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

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:

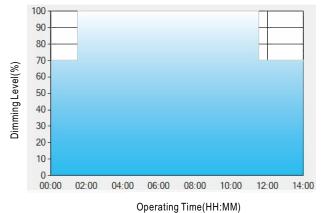
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

operating rime(riminim)

- **: 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 5:00 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.

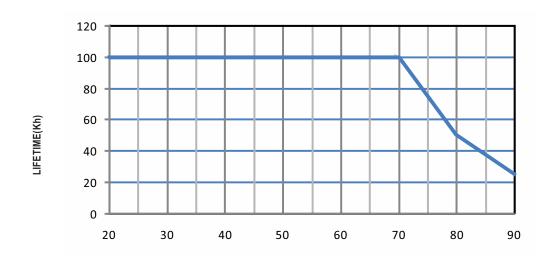


■ OUTPUT LOAD vs TEMPERATURE(Note.9) 100 100 80 230VAC 230VAC for BE Type input only input only 60 60 LOAD (%) LOAD (%) 40 40 20 -40 30 50 55 60 85 AMBIENT TEMPERATURE, Ta (°C) Tcase (°C) ■ STATIC CHARACTERISTIC ■ POWER FACTOR (PF) CHARACTERISTIC imes Tcase at 80°C **Constant Current Mode** 100 90 0.98 80 0.96 277V (150W) **6** 0.94 230V (150W) 60 LOAD (%) 0.92 50 0.9 0.88 160 180 200 240 250 260 270 280 305 100 120 140 50% 60% 70% 80% 90% 100% **INPUT VOLTAGE (V) 60Hz** LOAD ※ De-rating is needed under low input voltage. ■ TOTAL HARMONIC DISTORTION (THD) **■** EFFICIENCY vs LOAD ELG-150 series possess superior working efficiency that up to 91% can be reached in field applications. 18% 94 16% 92 **EFFICIENCY(%)** 90 문 -277VAC(150W) <u></u>277V(150W) 12% 88 -230V(150W) -230VAC(150W) 10% 86 -115VAC(105W) **←**115V(105W) 8% 84 82 80 60% 50% 70% 90% 100% 80%

LOAD

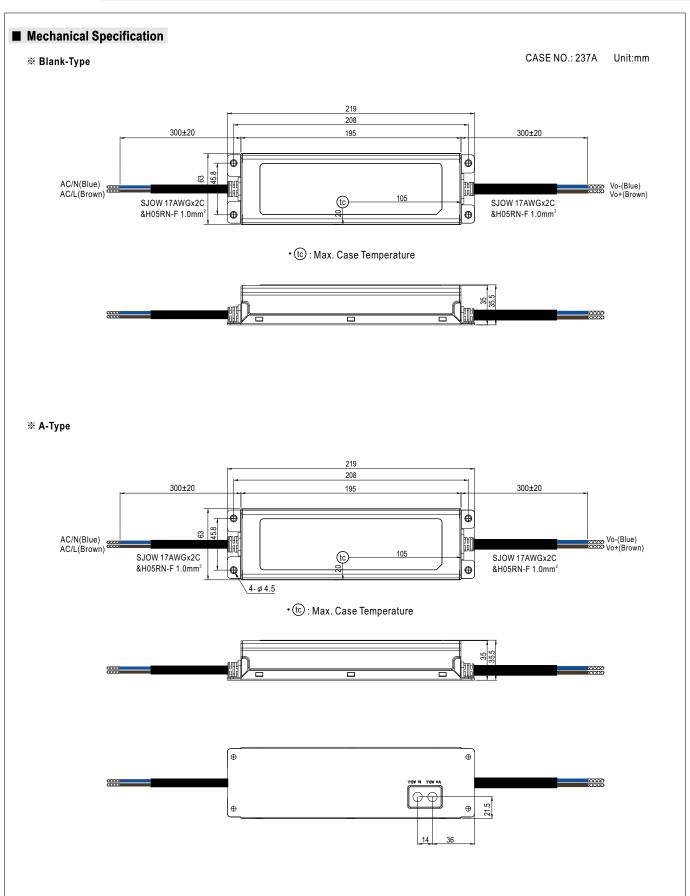
LOAD

■ LIFE TIME

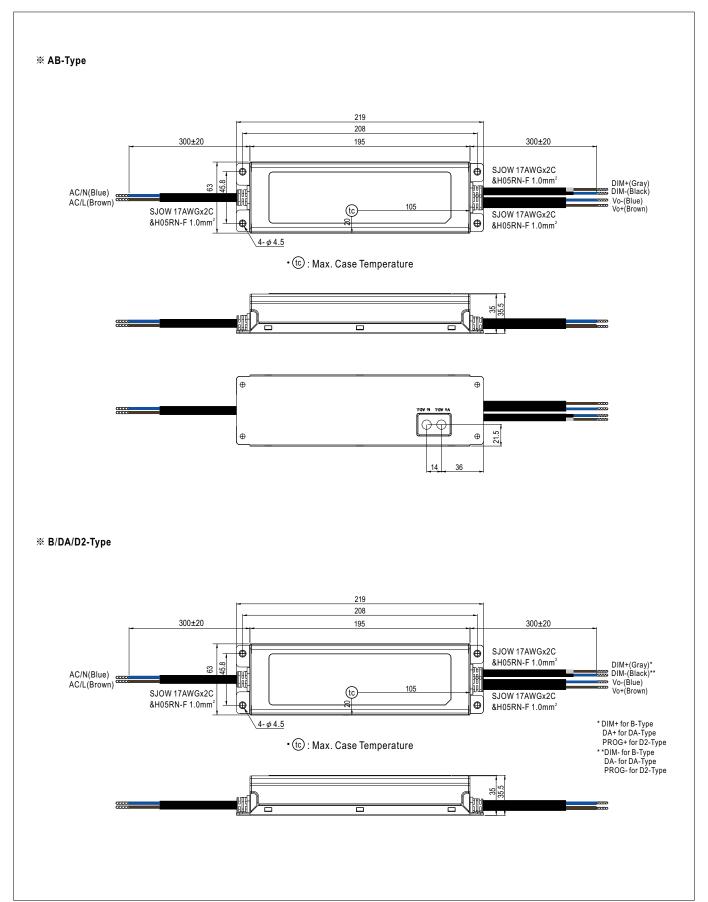


Tcase ($^{\circ}\!\mathbb{C}$)

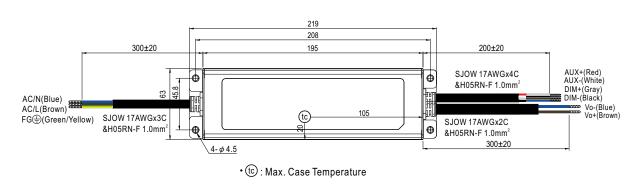






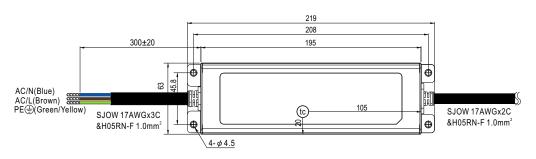


※ BE-Type





※ 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