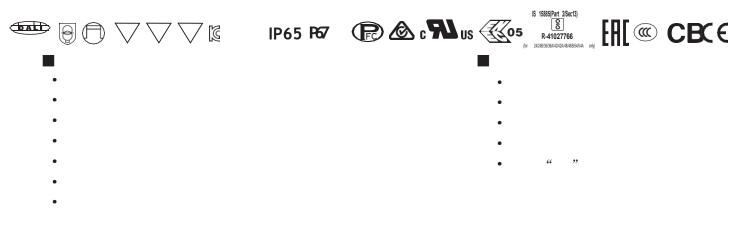
MEAN WELL
 70~100W Constant Voltage + Constant Current LED Driver ELG-100 series

 Buy website address:
 https://reissopto-led.com/products/meanwell-elg-100-24a-elg-100-36a-elg-100-48a-single-output-power-supplies

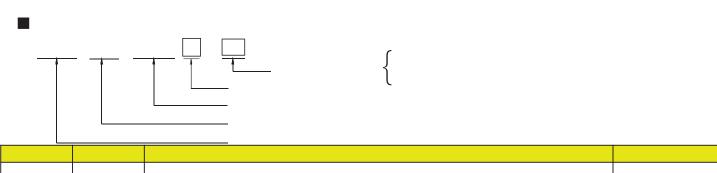
Suy website address.<u>https://teissopio-ied.com/products/meanweit-eig-100-24a-eig-100-50a-eig-100-48a-single-output-powei-</u>





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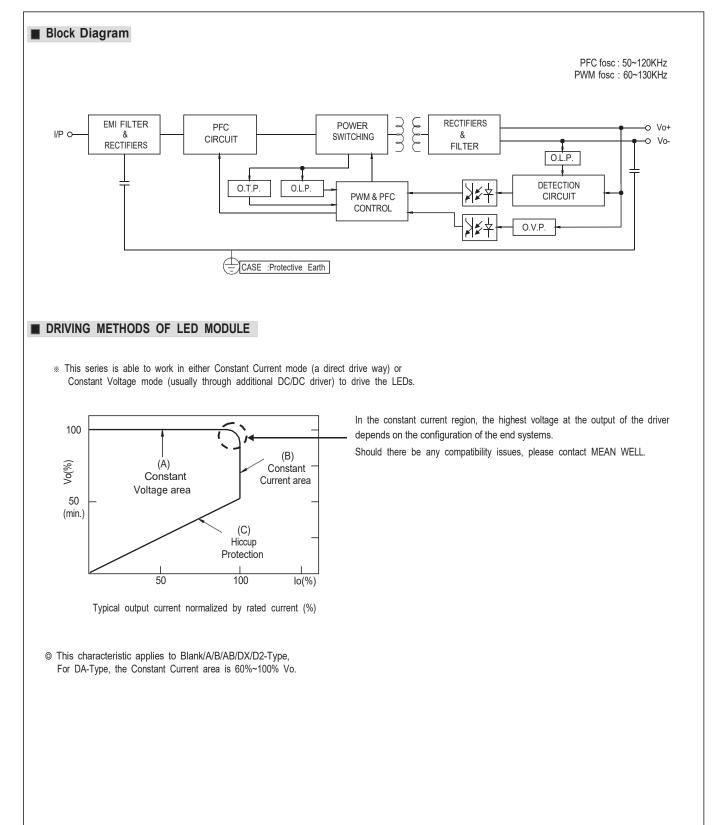


A		
Dx		

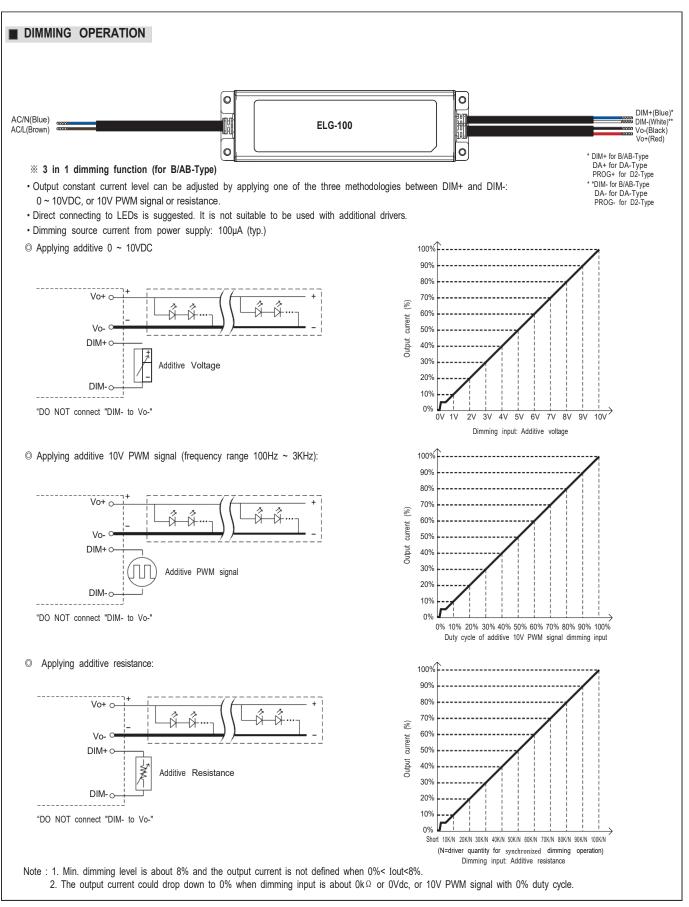


#### MODEL ELG-100-24 ELG-100-36 ELG-100-42 ELG-100-48 ELG-100-54 36V DC VOLTAGE 24V 42V 48V 54V 21 ~ 42V 27 ~ 54V CONSTANT CURRENT REGION Note.2 12 ~ 24V 18~36V 24 ~ 48V RATED CURRENT 4.0A 2.66A 2.28A 2A 1.78A 200VAC ~ 305VAC 95.76W 95.76W 96W 96.12W 96W RATED POWER 100VAC ~ 180VAC 70W 70W 70W 70W 70W 250mVp-p RIPPLE & NOISE (max.) Note.3 200mVp-p 250mVp-p 300mVp-p 350mVp-p Adjustable for A/AB-Type only (via the built-in potentiometer) VOLTAGE ADJ. RANGE 32.4 ~ 39.6V $21.6 \sim 26.4 V$ 37.8 ~ 46.2V 43.2 ~ 52.8V 48.6 ~ 59.4V OUTPUT Adjustable for A/AB-Type only (via the built-in potentiometer) CURRENT ADJ. RANGE 2~4A 1.33 ~ 2.66A 1.14 ~ 2.28A 1~2A 0.89 ~ 1.78A VOLTAGE TOLERANCE Note.4 ±3.0% ±2.5% ±2.5% ±2.0% ±2.0% LINE REGULATION ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% LOAD REGULATION ±1.0% ±1.0% ±0.5% ±0.5% ±0.5% SETUP, RISE TIME Note.6 1000ms, 80ms/115VAC 500ms, 100ms/230VAC 15ms/115VAC 10ms/230VAC HOLD UP TIME (Typ.) 100 ~ 305VAC 142 ~ 431VDC continue,320VAC for 24Hrs; 360VAC for 1Hr VOLTAGE RANGE Note.5 (Please refer to "STATIC CHARACTERISTIC" section) EREQUENCY RANGE 47 ~ 63Hz $\mathsf{PF} \geqq 0.97/115 \mathsf{VAC}, \ \mathsf{PF} \geqq 0.95/230 \mathsf{VAC}, \ \mathsf{PF} \geqq 0.92/277 \mathsf{VAC} @ \mathsf{full} \ \mathsf{load}$ POWER FACTOR (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) THD< 20%(@load¾50%/115VC; @load¾60%/230VAC; @load¾75%/277VAC) TOTAL HARMONIC DISTORTION (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section) INPUT **EFFICIENCY** (Typ.) 88% 89% 90% 90% 91% AC CURRENT 1.1A / 115VAC 0.6A / 230VAC 0.5A/277VAC INRUSH CURRENT(Typ.) COLD START 60A(twidth=850µs measured at 50% lpeak) at 230VAC; Per NEMA 410 MAX. No. of PSUs on 16A 3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC **CIRCUIT BREAKER** LEAKAGE CURRENT <0.75mA / 277VAC NO LOAD / STANDBY No load power consumption <0.5W for Blank / A / Dx / D2-Type POWER CONSUMPTION Standby power consumption <0.5W for B / AB / DA-Type 95~108% OVER CURRENT Constant current limiting, recovers automatically after fault condition is removed SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed PROTECTION 41 ~ 48V 54 ~ 62V 62 ~ 72V 28 ~ 34V 47~54V OVER VOLTAGE Shut down output voltage, re-power on to recover OVER TEMPERATURE Shut down output voltage, re-power on to recover Tcase=-40 ~ +90 ℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) WORKING TEMP. MAX. CASE TEMP. Tcase=+90℃ 20 ~ 95% RH non-condensing WORKING HUMIDITY STORAGE TEMP., HUMIDITY ENVIRONMENT -40 ~ +80℃, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 60°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.13-12; IEC/EN/AS/NZS 61347-1, IEC/EN/AS/NZS 61347-2-13 independent, EN62384; EAC TP TC 004.BIS IS15885(for 24/24B/36/36A/42/42A/48/48B/54/54A only);GB19510.1, GB19510.14; IP65 or IP67; SAFETY STANDARDS KC61347-1 KC61347-2-13 approved DALI STANDARDS Compliance to IEC62386-101,102,(207 by request) for DA Type only SAFETY & WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC FMC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to EN55015,EN61000-3-2 Class C (@load ≥60%); EN61000-3-3;GB17743, GB17625.1;EAC TP TC 020; KC KN15,KN61547 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 020; KC KN15,KN61547 EMC IMMUNITY MTBF 978.2K hrs min. Telcordia SR-332 (Bellcore) 282.9Khrs min. MIL-HDBK-217F (25℃) 199\*63\*35.5mm (L\*W\*H) DIMENSION OTHERS 0.85kg; 16pcs/14.2kg/0.72CUFT PACKING °C NOTE $\bigcirc$ °C °C °C











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

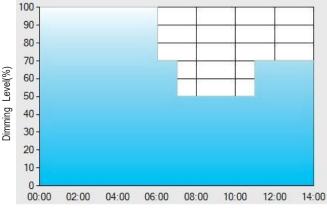
• Apply DALI signal between DA+ and DA-.

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

### % 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:

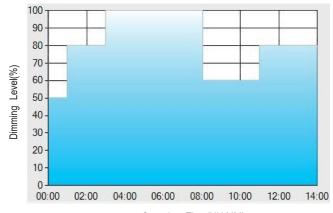
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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:

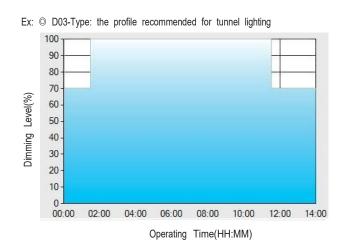
	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

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:

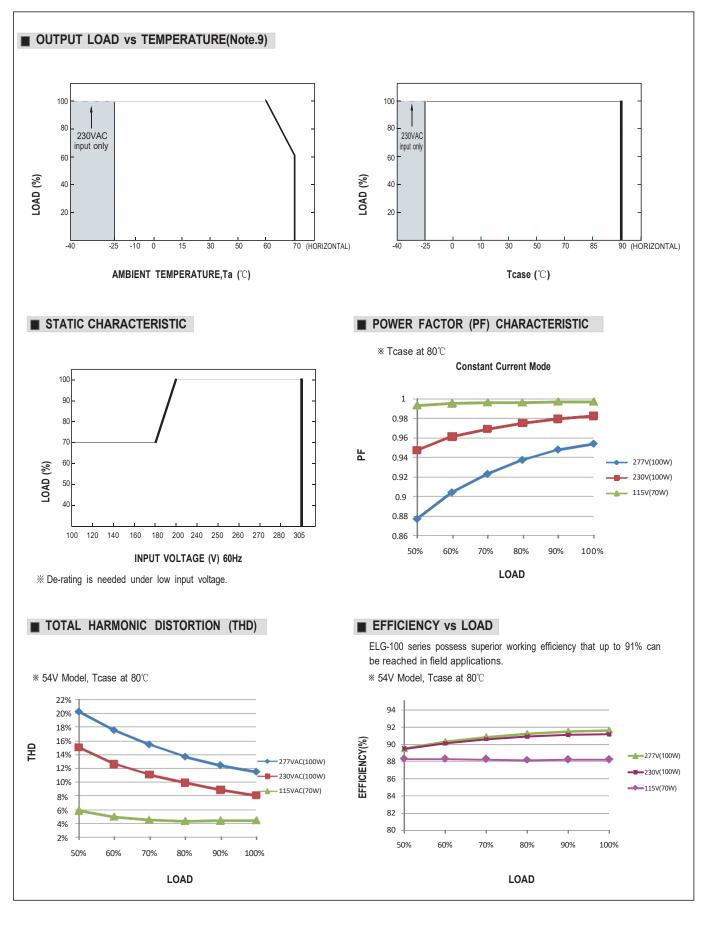
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[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.

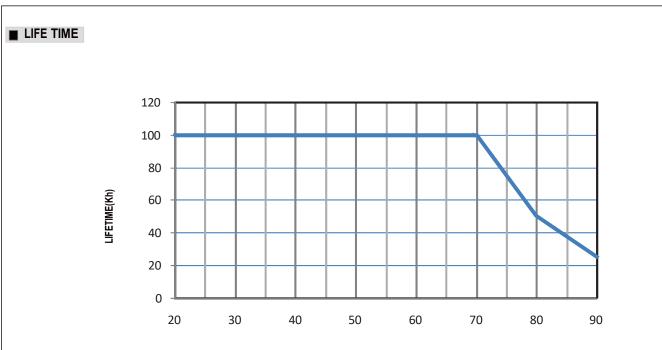


70~100W Constant Voltage + Constant Current LED Driver ELG-100 series

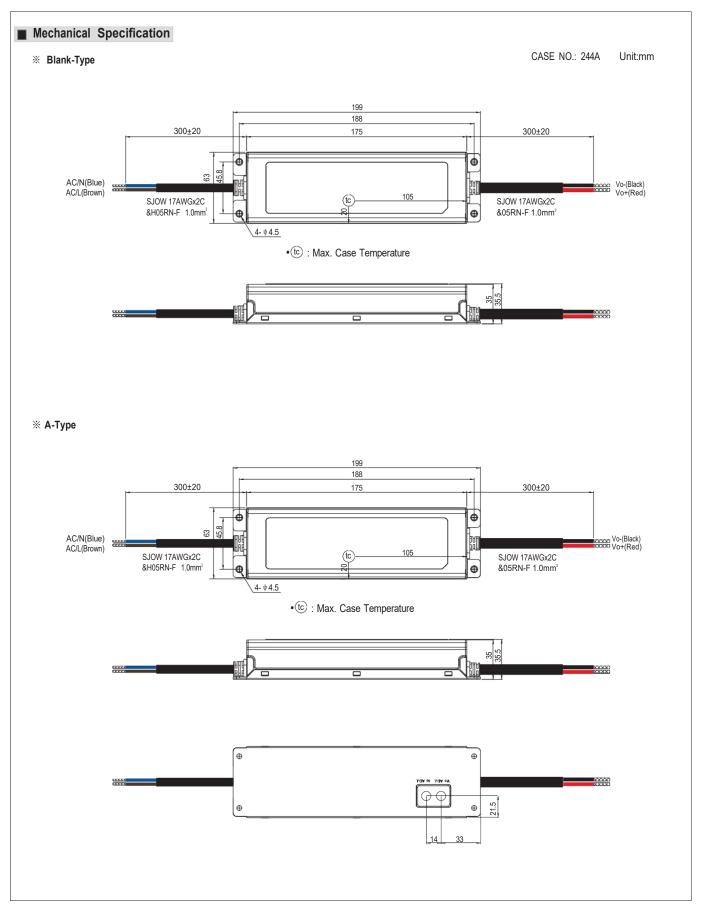




70~100W Constant Voltage + Constant Current LED Driver **ELG-100** series

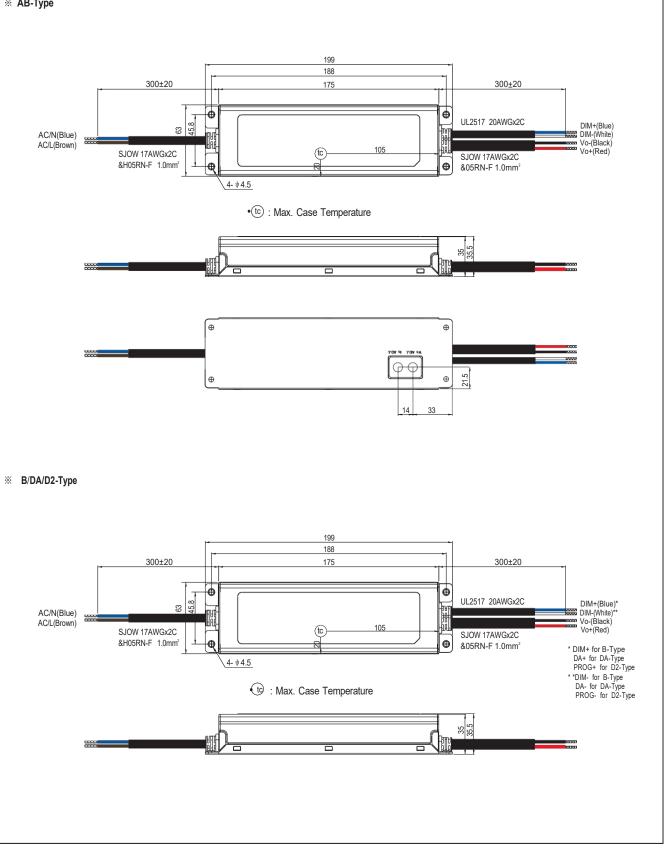






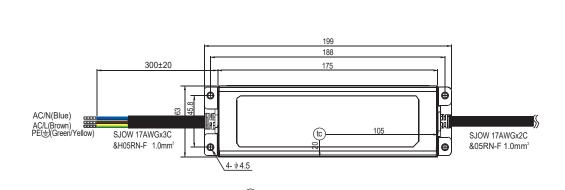


※ AB-Type





### % 3Y Model (3-wire input)



• tc) : Max. Case Temperature

 $\ensuremath{\textcircled{O}}$  Note1: Please connect the case to PE for the complete EMC deliverance and safety use.

 $\circledcirc$  Note2: Please contact MEAN WELL for input wiring option with PE.

### ■ INSTALLATION MANUAL

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