AURORA

IP67 24V CONSTANT VOLTAGE LED DRIVER

(for DA-Type only) SELV IP65 IP67 Type HL

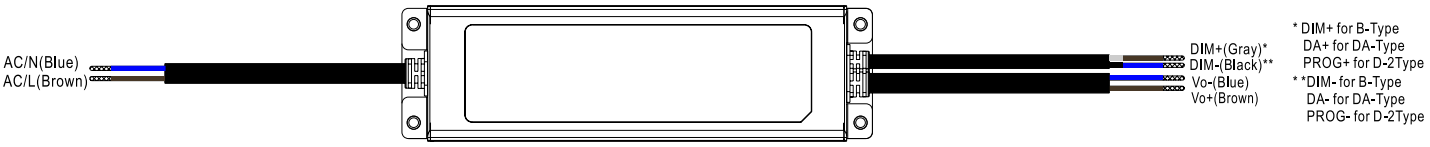
PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION LEAVE A COPY FOR THE USER / MAINTENANCE ENGINEER FOR FUTURE REFERENCE

IMPORTANT INSTALLATION INFORMATION

- Installation should be carried out in accordance with the latest edition of the I.E. E. Wiring Regulations.
- For use with Aurora 24V Constant Voltage LED Products
- IMPORTANT. Constant Voltage MUST be wired In PARALLEL.
- PLEASE NOTE: 24V DC Output- correct polarity must be observed
- Before installation or maintenance, ensure electricity is switched off at the mains.
- Ensure that ALL electrical connections are tight with no loose strands.
- The LED Driver is IP67.
- It is the installers responsibility to ensure that all connections to the mains supply and 24V DC circuit are correctly protected against water ingress.
- The LED Driver is not dimmable.

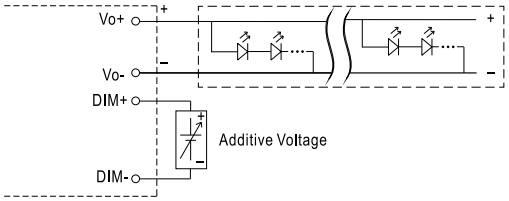
PRODUCT SPECIFICATION

OUTPUT	Product Code	AU-ELG-100-24	AU-ELG-150-24	AU-ELG-200-24
	DC VOLTAGE	24V	24V	24V
	CONSTANT CURRENT REGION	12 ~ 24V	12 ~ 24V	12 ~ 24V
	RATED CURRENT	4.0A	6.25A	8.4A
	RATED POWER	200VAC ~ 305VAC 96W 100VAC ~ 180VAC 70W	200VAC ~ 305VAC 150W 100VAC ~ 180VAC 105W	200VAC ~ 305VAC 201.6W 100VAC ~ 180VAC 150W
	RIPPLE & NOISE (max.)	200mVp-p	200mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	21.6 ~ 26.4V	21.6 ~ 26.4V	22.4 ~ 25.6V
	CURRENT ADJ. RANGE	2 ~ 4A	3.2 ~ 6.25A	4.2 ~ 8.4A
	VOLTAGE TOLERANCE	±3.0%	±3.0%	±2.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±0.5%
	AUXILIARY DC OUTPUT	-	Nominal 15V (deviation 11.5~15.5V)@0.4A for BE-Type only	-
	SETUP, RISE TIME	1000ms, 80ms/115VAC 500ms, 100ms/230VAC	1600ms, 80ms/115VAC 500ms, 100ms/230VAC	500ms, 100ms/230VAC, 1000ms, 100ms/115VAC
	HOLD UP TIME (Typ.)	15ms/115VAC 10ms/230VAC	10ms/115VAC, 230VAC	10ms/ 230VAC 10ms/ 115VAC
INPUT	VOLTAGE RANGE	100 ~ 305VAC 142 ~ 431VDC	100 ~ 305VAC 142 ~ 431VDC	100 ~ 305VAC 142 ~ 431VDC
	FREQUENCY RANGE	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz
	POWER FACTOR	PF≧0.97/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC@full load	PF≧0.97/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC@full load	PF≧0.97/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC@full load
	EFFICIENCY (Typ.)	88%	89%	92%
	AC CURRENT	1.1A / 115VAC 0.6A / 230VAC 0.5A/277VAC	1.7A / 115VAC 0.9A / 230VAC 0.7A/277VAC	1.8A / 115VAC 1.2A / 230VAC 1.0A/277VAC
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth=850μs measured at 50% Ipeak) at 230VAC; Per NEMA 410	COLD START 65A(twidth=550μs measured at 50% Ipeak) at 230VAC; Per NEMA 410	COLD START 60A(twidth=510μs 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	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC	4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC
	NO LOAD / STANDBY POWER CONSUMPTION	No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / DA-Type	No load power consumption <0.5W for Blank / A / Dx / D2-Type Standby power consumption <0.5W for B / DA-Type	No load power consumption <0.5W for Blank / A / Dx / D-Type Standby power consumption <0.5W for B / DA-Type
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1, GB19510.14; IP65 or IP67 approved	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1, GB19510.14; IP65 or IP67 approved	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.14,GB19510.1; IP65 or IP67 approved
	DALI STANDARDS	Compliance to IEC62386-101, 102, 207 for DA-Type only	Compliance to IEC62386-101, 102, 207 for DA-Type only	Compliance with IEC62386-101,102,207 for DA-Type only
	EMC EMISSION	Compliance to EN55015,EN61000-3-2 Class C (@load≧60%); EN61000-3-3;GB17743, GB17625.1	Compliance to EN55015,EN61000-3-2 Class C (@load≧60%) ; EN61000-3-3; GB17743,GB17625.1	Compliance to EN55015,EN61000-3-2 Class C (@load≧50%) ; EN61000-3-3;GB17625.1,GB17743
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)



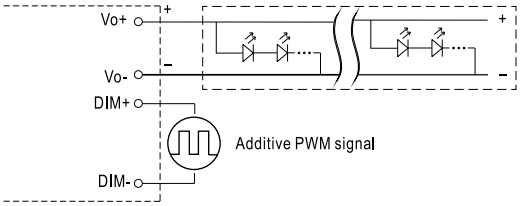
- 3 in 1 dimming function (for B-Type)
- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100A(typ.)

Applying additive 0 ~ 10VDC



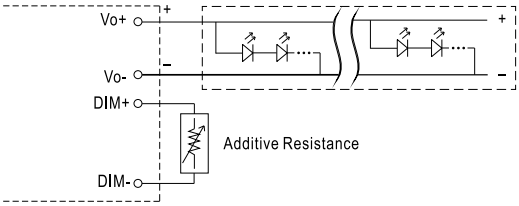
DO NOTconnect “DIM- to Vo-”

Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



DO NOTconnect “DIM- to Vo-”

Applying additive resistance:



DO NOTconnect “DIM- to Vo-”

Diagram 1 – Parallel Wiring Installation

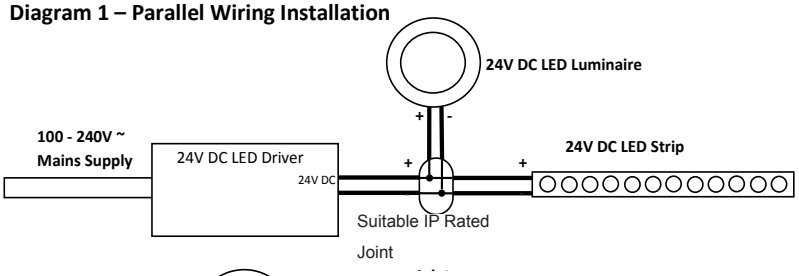
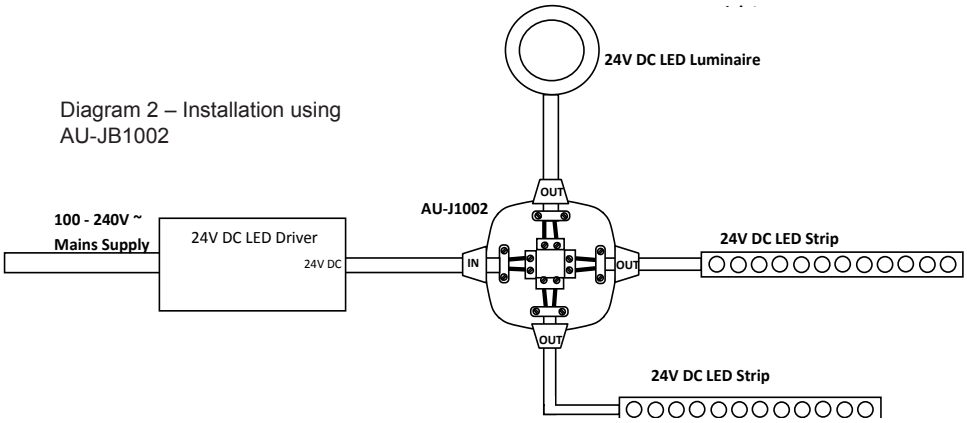


Diagram 2 – Installation using AU-JB1002



Environmental Protection (W.E.E.E.) – Aurora’s WEEE Reg.No. WEE/BG0130YX(UK Only)

Waste Electrical & Electronic Equipment Regulations (WEEE) requires that any of our products showing this marking (left) must not be disposed of with other household or commercial waste. Aurora does not levy any WEEE disposal charges to its customers for affected WEEE related products. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate any such product from other waste types and recycle it responsibly at your local facilities. Check with your Local Authority, Recycling Centre or retailer for recycling advice. If, when you purchased any Aurora product, your supplier included a WEEE disposal fee, you should then contact your supplier for advice on his takeback of the product for the correct disposal.

WARRANTY

See www.auroralighting.com for full details of warranties and Extended Warranty Terms and Conditions. The warranty is invalid in the case of improper use, tampering, and removal of the Q.C. date label, installation in an improper working environment or installation not according to the current edition of the National Wiring Regulations. Should this product fail during the warranty period it will be replaced free of charge, this is subject to correct installation and return of the faulty product. Aurora does not accept responsibility for any installation costs associated with the replacement of this product. This warranty is in addition to the statutory rights in your country of purchase. Aurora reserves the right to alter specifications without prior notice.

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