

ADL5K-080-IC2100-ZC

Constant Current Isolated LED Driver

Output Power: **80W**

Output Current: **700-2100mA** (programmable)

Dimmable:
1%-100%



IP20

5 years warranty



Product Features:

- Single channel isolated output
- Up to 90.0% efficiency
- 0-10V or resistor dimming with dimming range 1-100%
- Programmable output current by cable interface
- Dry and Damp location rated
- Linear type design for indoor and office lighting applications



Applications:



Electrical specification:

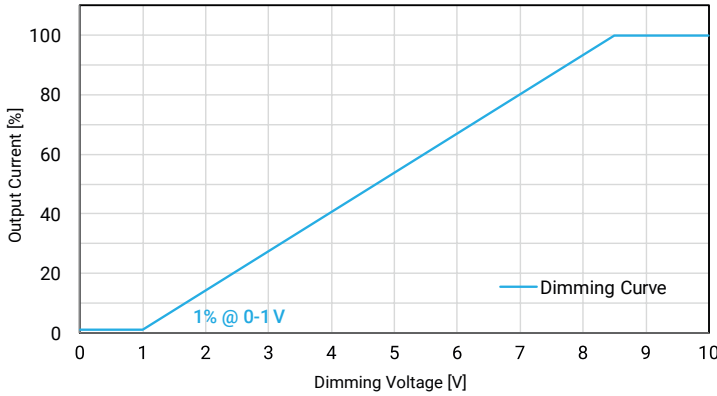
Input	Voltage	120-277VAC
	Frequency	50/60Hz
	Current	0.33Amax@120-277VAC
	Efficiency	>87%@120VAC, Full load
	PF	≥0.95@120VAC, Full load
	THD (full load)	<10%@120VAC, Full load
	Inrush Current	Cold start, 20A/250us @120VAC
Output	Current	700-2100mA
	Voltage	20-54VDC
	Power	50W Max
	Channel	1
	No load output voltage	60V Max
	Current tolerance	±5%
	Line Regulation	± 2%
	Load Regulation	± 5%
	Start-up Time	<1000ms @ 120-277Vac
Output Current Ripple	5% @full load	
Protection	Over Voltage	Max. 60V, Auto-Recovery when the fault is removed
	Over load	Auto-Recovery when the fault is removed
	Short circuit	Auto-Recovery when the fault is removed
	Over Temperature	Auto-Recovery when the fault is removed
	Suitable for Luminaires Class	Class I. Insulation Class according to IEC 60598. The case must be grounded
Safety & EMC	Surge	L-N:2KV
	Safety standards	UL 8750, Class P, type "HL". Output meet class 2 of UL1310
	EMC Emissions	Compliance to 47 CFR FCC Part 15, Subpart B, Class A
Functions	Dimming	0-10V, Suitable for Class 1 or Class 2 wiring, driver will source a 100uA for control needs
	Dimming range	1%-100%, 0V = Dim to off or programmed minimum dimming level, 1.1V (1%) – 8.5V (100%)
	Programming	Programmable output current
Other	Dimension (L*W*H),	14.2x1.2x1.0 in (360x30x25.4 mm)
	Packing Information	Net weight: 1.23 lb (560 g)
	IP rating	IP20
	Operating temp / Relative humidity	-25°C~+50°C, / 10 to 60% RH (Non-Condensing)
	tc	90°C
	Lifetime	50,000h@tc:80°C
Material	Metal sheet	

Product Specifications:

Part Number	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Output Current (mA)	Efficiency (%)	Warranty (Years)	IP	Functions	Dimensions L x W x H (in)	Class P
ADL5K-030-IC1050-ZC	30	120 - 277	16-54	150-1050	89	5	IP20	0-10V Dim	11.0 x 1.2 x 1.0	v
ADL5K-050-IC1400-ZC	50	120 - 277	16-54	350-1400	89	5	IP20		11.0 x 1.2 x 1.0	v
ADL5K-080-IC2100-ZC	80	120 - 277	20-54	700-2100	90	5	IP20		14.2 x 1.2 x 1.0	v

Performance Specifications:

Dimming Curve



Dimming Characteristics

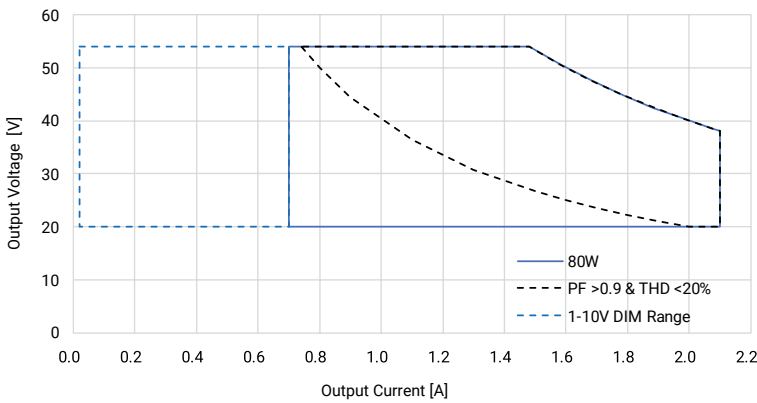
0 - 10V Analog Dimming Interface:

- Suitable for Class 1 or Class 2 wiring.
- Driver will source a 100uA for control needs.
- Controller must sink current from the 0-10V control leads.

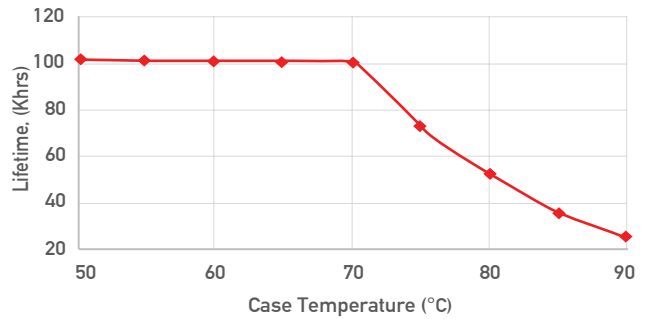
Dimming Characteristics:

- 10V = maximum output
- 0V = dim 1% for 80W
- 1.1V (1%) – 8.5V (100%)
- For 80W model, when $V_{out} < 33V$, I_{out_min} should be $\geq 100mA$

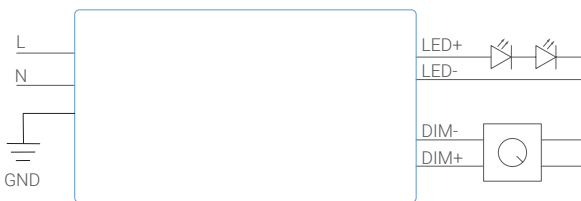
Output Voltage Range



Lifetime vs. Case Temperature

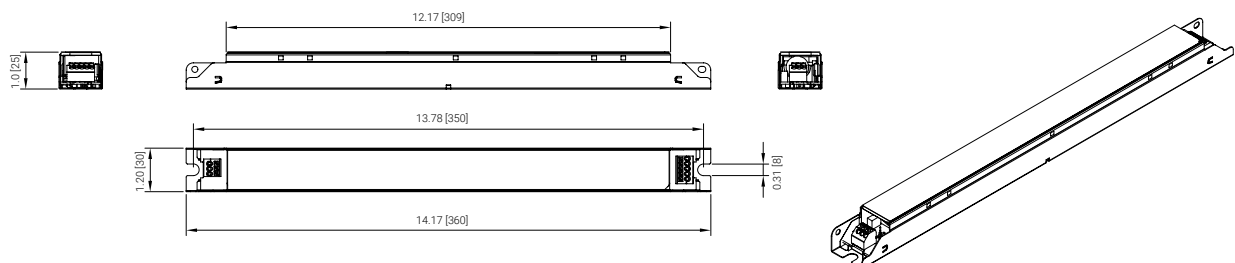


Wiring Diagram:



Input connector	Terminal, 3-pole Line – Black / Neutral – White / PE – Green Conductor 0.5~1.5 mm ² , Strip length 8.5...9.5mm
Output connector	Terminal, 5-pole (LED+ – Red / LED- – Black / PRG_NTC – Orange / DIM- – Pink / DIM+ – Purple), Conductor 0.5~1.5 mm ² , Strip length 8.5...9.5mm


Dimmensions:



**Warranty:**

Warranty period General Terms and Conditions <https://adurasolutions.com/warranty>

**Safety:**

1.  **Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.**
2. The LED driver may only be connected and installed by a qualified electrician. All applicable regulations, legislation, and building codes must be observed. Incorrect installation of the LED driver can cause irreparable damage to the LED driver and the connected LEDs.
3. Pay attention when connecting the LEDs: polarity reversal results in no light output and often damages the LEDs.
4. LED drivers are designed and intended to operate LED loads only. Powering non-LED loads may push the LED driver outside its specified design limits and is, therefore, not covered by any warranty.
5. To guarantee sufficient convection cooling, **keep a minimum distance of 2" (50mm) or above** and lateral distance to other units. Good heat dissipation conditions extend product life. Install the product in a well-ventilated environment.
6. Please make sure LED power supply output voltage, current is used to meet the product requirements.
7. The current rating for the output cable must be rated higher than or equal to the output current of the power supply, refer to the product specifications.
8. Please observe voltage drop over long cable lengths. Longer cable lengths increase EMI susceptibility.
9. In case of malfunction, do not repair it.