

### ARC-DI-96X2I1920-MUV-D1S-LS

### **Features**

- · Universal AC Input Voltage(120-347VAC)
- · Metal sheet case
- · One isolated 0-10V dimming interface
- · Flicker free, excellent camera compatibility
- · Dual Output, Class2, Class P
- $\cdot$  Operating temperature: -20  $^{\circ}\!\text{C}$  ~+50  $^{\circ}\!\text{C}$
- · Comply with IEEE1789, UL8750
- · Programmable
  Output current(1mA step)
  Dim to off
- · Aux power, 12V/200mA
- · ANSI C62.41 Category B 6kV



# Model list

Model NO.	Rated Input Voltage	Max Output power	Default Output Current	Output Current Range	Output Voltage Rated	Aux Power
ARC-DI-96X2I1920-MUV-D1S-LS	120-347Vac	96W+96W max.	840mA*2	(840-1920mA)*2	35-50VDC	12V

## **Paramaters**

	Parameter	Min	Тур.	Max	Note
	Input Voltage	120Vac	-	347Vac	-
	Input Voltage range	108Vac	-	382Vac	-
	Rated Frequency	47Hz	50/60Hz	63Hz	-
	Input current	-	-	2A	@120Vac full load
INPUT	Inrush current	-	-	100A	230Vac, cold start (25°C)
	Power Factor	>0.95	-	-	@120Vac 100% load
	Power Factor	>0.9	-	-	@347Vac 100% load
		-		<5%	@120Vac 100% load
	T.H.D.	-		<20%	@347Vac 100% load
	F#G-i	-	86-88%	-	@120Vac Vout=50V, Iout=1920mA, steady sta
	Efficiency	-	88-90%	-	@347Vac Vout=50V, lout=1920mA, steady sta
	Turn On Delay Time	-	-	0.75S	Cold Start, 1500-2100mA



	Parameter		Min	Тур.	Max	Note	
	Programmable Outp	ut Current	840mA	-	1920mA	Per Channel	
	Output current tolerance		-	-	5%	1500-1920mA	
	Output Voltage	Output Voltage		-	50V	The derating begins when the input voltage is less than 108 ±10%Vac	
Output	Output Power		-	-	192W	Total Power, See "Operating window"	
	Line Regulation		-	-	3%	-	
	Load Regulation	oad Regulation		-	5%	VOUT from MIN. to MAX.	
	Ripple Current		-	-	10%	Full Load, (lomax-lomin)/(lomax+lomin)	
	Output Current Overs	Output Current Overshoot		-	10%	Turning Power ON	
	Dimming Curve		Linear. please s	ee "Dimming curve	e".		
	Source Current on 0-	-10V Dimming	-	200uA	-	-	
	Light Off		-	0.7±0.1V	-	-	
0~10V or Resistor Dimming	Dimming Voltage for Full Bright		-	8.5V	-	-	
	Dimming Range		1%	-	100%		
	External Resistor Value at Full Bright		-	40	-	kΩ	
	Leakage Voltage		-	-	20	Voltage between DIM- and Ground	
Ducamanina	The driver can be programmed through Programming Port.  Output current(1mA step)  OTP point of driver, LED thermal protection  the driver can be easily connected to a digital control system, to set the driver(eg: output current, dimming level, and so on).						
Programming		Programming software	g USBNode Tool				
	Programming Port Programming tool		TBD				
		Operating voltage	-	5V		-	
	Output Power		-	-	2.4W	-	
Auxiliary source	Output Voltage		-	12VDC	-	-	
	Voltage tolerance		-	-	8%	-	



	Parameter	Min	Тур.	Max	Note	
Protection	Over Voltage Protection	-	-	60V	Recover automatically after fault conditions is removed.	
Protection	Over Temp. Protection	-	90℃	-	Programmable. Current foldback at hotspot greater than TOTP	
	Short Circuit Protection	Recover automatically after fault conditions is removed.				
	Storage Temperature	-40°C	-	<b>85</b> ℃	Total Power, See "Operating window"	
	Ambient Operating Temperature (ta)	-25℃	-	<b>50</b> ℃		
Environment	Max. Case Temperature (tc)	-	-	90℃	Hot spot on case	
Liviloiment	Operating Relative Humidity (Ha)	10%	-	90%	Non-Condensing	
	Acoustic Noise	-	-	24dBA	Measured from 1 m w/o dimmer.	
	Cooling	Convection Cooling				
	IP Rating	Dry and damp UL approved				
	Life Time	50kHrs	-	-	Full Load, 80°C case temperature,	
Others	MTBF	200kHrs	-	-		
Others	Warranty	5 Years Warranty at Tc ≤80°C				
	Flicker	IEEE 1789,Title 24				
Safety Compliance	CUL/UL	UL8750, CAN/CSA-C22.2 No. 250.13				

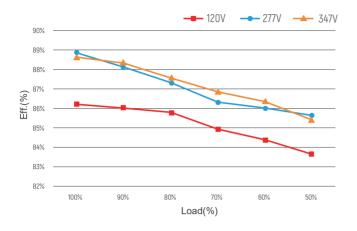
	EMC Requirements	Standard	Conditions		
	EMI Emissions	FCC Title 47 Part 15B	Class A		
	Voltage Fluctuations and Flicker	IEC61000-3-3			
		IEC 61000-4-2	±8kV air Discharge, ±6kV Contact Discharge		
Electromagnetic Compliance		ANSI C82.77-2015	Category B, 6kV, Comb wave		
		IEC 61000-4-11	>95% dip, .5 period; 30% dip, 25 periods; 95% reduction, 250 periods		
		IEC 61000-4-4	± 2kV Direct couple to Line input, 5kHz repitition rate, 15mS duration, 300mS period. 7 coupling paths, 1 minute per path (14 total combinations)		
Note: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and rated voltage.					

# Packaging

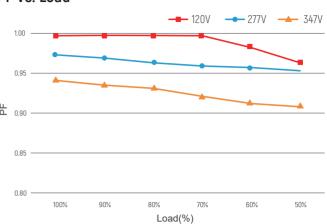
Driver quantity (pcs)	Layer	Weight (kg)	Outer dimensions of Carton L*W*H(mm)
20	4	TBD	TBD



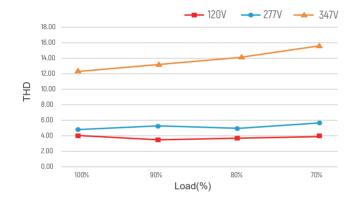
# Efficiency Vs. Load



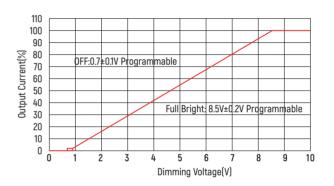
# PF Vs. Load



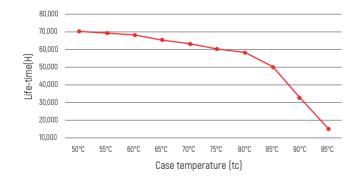
# THD Vs. Load



# Dimming Voltgage Vs. Output Current



# Life-time vs. case temperature

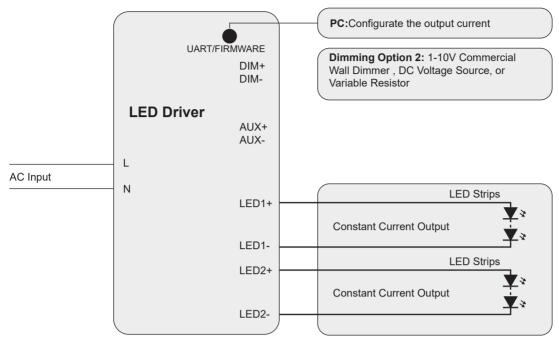


The life-time of the led driver is shown in the figure above (calculated based on the 90% survival rate).

The relation of tc ta temperature depends also on the luminaire design.

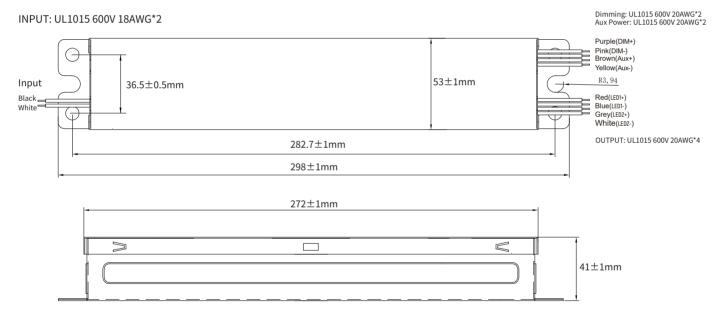


# **Typical Application**



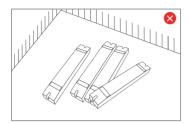
\*Dual Independent Outputs, Do Not Combine

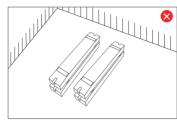
# **Mechanical Drawing:**

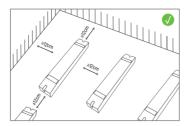




#### **Installation Precautions**







Please do not stack the products. The distance between two products should be>12cm so as not to affect heat dissipation and the lifespan of the products.

#### Cautions

- 1. This product should be installed by qualified personnel.
- 2. This product is non waterproof, need to avoid sun and rain. In case of outdoor use, please ensure it is mounted in a water proof enclosure.
- 3. Good heat dissipation conditions extend product life. Please install the product in a well-ventilated environment.
- 4. Please make sure LED power supply output voltage, current is used to meet the product requirements.
- 5. Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
- 6. Due to safety concerns, PVC or rubber cord of 0.75- 2.5mm<sup>2</sup> is recommended for input and output terminal(s)(excluding signal terminals). Flat power cord is not suitable. Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- 7. In case of malfunction, do not repair it yourself.
- \*\* The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions, the function of the product shall prevail. Please contact us if you have any questions.

#### **Warranty Agreement**

- 1. Warranty periods from the date of delivery : 5 years.
- 2. Free repair or replacement services for quality problems are provided within warranty periods.

#### Warranty exclusions below:

- 1. Beyond warranty periods.
- 2. Any artificial damage caused by high voltage, overload, or improper operations
- 3. Products with severe physical damage.
- 4. Damage caused by natural disasters and force majeure.
- 5. Warranty labels and barcodes have been damaged.
- 6. No any contract signed by EUCHIPS.
- · Repair or replacement provided is the only remedy for customers. EUCHIPS is not liable for any incidental or consequential damage unless it is within the law.
- · EUCHIPS has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.