

0-10V Dimming Drivers

ARC Series Model name explanation

ARC	XX	AAA	X	c	a	BBBB	CCC	XYZ	d	N	(EX)	(0)
												(0):Dimming to off
												(EX):External 3-stage Wattage Selectable
												N:Number of CCT Selectable
												L=Large Case S=Standard Case M=Mini Case P=6-inch Case R=Narrow Case MB=Match Box
												XYZ: Expansion Function D1: 0-10V Dimming D1S: 0-10V Dimming+12V D1+Dn*: 0-10V Dimming+Power Selectable D1S+Dn*: 0-10V Dimming+12Vaux+Power Selectable *n: Number of Power Selectable
												CCC: Input Voltage UNV=120V-277V MUV=120V-347V HUV=347V-480V
												BBBB: Output Current or Output Voltage
												Constant Current or Constant Voltage I=Constant Current U=Constant Voltage
												AAA:Output Power XC:Channel
												XX: DI=Isolation DN=Non-isolation

ARC DI 60-80 W M Series

Features

- Supply Voltage 108-382Vac
- Great Surge Immunity 2.5k(ringwave)
- 50000Hour Life @ Tc=90 °C
- 5Year Warranty@Tc<=90 °C
- ±5% Output Current Accuracy
- 0-10V/DIP Dimmable
- UL Class P, Class 2
- Safety according to UL8750 & UL 1310



Application:
· Indoor lights

Certificate



Model No.	Input Voltage (VAC)	Input Current (A)	PF	Output Voltage (VDC)	MAX Output power (W)	MAX Iout(mA)	Eff(Max)	Life at Tc 90°C(h)
ARC-DI-80I2100-UNV-DI-M	120-277	0.90(Max)	0.90	24-38	80	2100	86%	50000
ARC-DI-80I2100-UNV-DI-M(EX)	120-277	0.90(Max)	0.90	24-38	80	2100	86%	50000
ARC-DI-80I2100-UNV-DI+D3-M	120-277	0.90(Max)	0.90	24-38	80	2100	86%	50000
ARC-DI-80I2100-UNV-DIS-M	120-277	0.90(Max)	0.90	24-38	80	2100	86%	50000
ARC-DI-80I2100-UNV-DIS-M(EX)	120-277	0.90(Max)	0.90	24-38	80	2100	86%	50000
ARC-DI-80I2100-UNV-DIS+D3-M	120-277	0.90(Max)	0.90	24-38	80	2100	86%	50000
ARC-XX-AAIBBBB-CCC-XYZ-M	CCC	0.22-0.90	0.90	24-50	60-80AA	1200-2100 BBBB	86%	50000

Optional List:

XYZ=	0-10V	DIP	12Vaux	Dim-off	CCC=	120-277V	120-347V	XX=	N	(EX)	Isolation	Non-isolation
N					UNV	✓		DI		✓	✓	
D1	✓			✓	MUV		✓	DN		✓		
D1S	✓		✓	✓						✓		
D1+D3	✓	✓		✓								
D1S+D3	✓	✓	✓	✓								

Application and Performance Specification Information Subject to Change without Notification

Technical Parameters

THD	<20%@70-100%load, refer to THD vs. Load curve
Inrush Current	40A peak, 1.2ms duration, <0.25A2s@120Vac, Cold Start
Surge Protection	L-N 2.5KV L/N-PE 2.5KV The RING WAVE is IEC61000-4-12
Leakage Current	0.75mA max @277Vac 60Hz, UL8750
Current Accuracy	±5%Io
Ripple Current	I _{p-p} :8%Io max
Setup Time	0.75s max
Short Circuit	Auto recovery. The output recovers when short is removed.
EMC	FCC Part 15 Class A
Operating Temperature	-20 °C ~+55 °C ; 10%RH ~100%RH
Storage Temperature	-40 °C ~+85 °C ; 5%RH~100%RH
MTBF	≥320,000 hours, 75 °C case temperature (MIL-HDBK-217F)
Case Temperature	90 °C max, marked in the Tc point of label

Dimension(mm)

Metal case

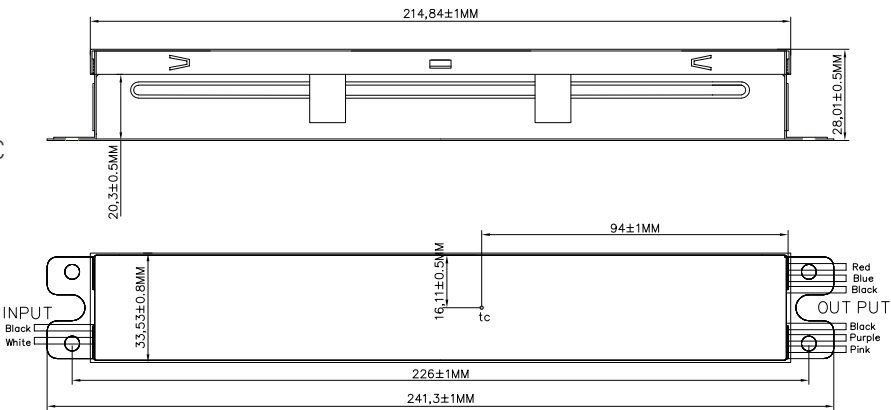
All material to be ROHs compliant to Directive 2002/95/EC

Wires to be Stranded with UL approval

Input: Black & White: 260mm , 18AWG

Output: Red & Blue: 300mm , 20AWG

Dimming: Purple & Pink:260mm , 18AWG



Physical Parameters

Overall Length(L): 9.5 "±0.1"

Width(W): 1.3 "±0.1"

Height(H): 1.1 "±0.1"

Mounting(L): 8.9 "±0.1"

Standards

UL8750

IEC61000-3-2

FCC Part 15 Class A

Safety

NO PCB'S

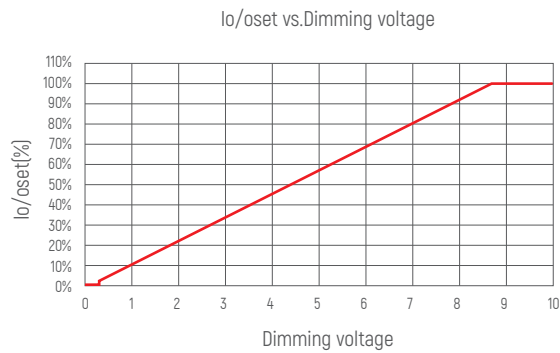
UL 1310

Sound Rated: A

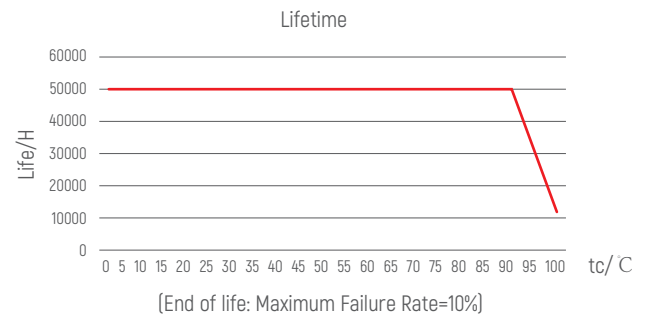
Dimming

Parameter	Min	Typ.	Max.
Vdim Sourcing Current	90uA	100uA	110uA
0-10V Dimming Range	0% (Vdim≤0.3V)	Linear	100% (Vdim=8.7V)

Dimming Curve



Lifetime vs. Case Temperature



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.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 .