

# LINEAGE<sup>™</sup> 96W SERIES

Subcompact | Constant Voltage | 0-10V Dimming



Yingjiao' s Lineage family of Subcompact Constant Voltage LED Drivers were designed for input voltages 120 through 277VAC and maintains a fully isolated output.

Our small form factor allows easily hidden mounting within a wide variety of applications, while adhering with international safety standards.

We've built-in automated; short circuit, over voltage, over current and over temperature protections.

Each driver undergoes rigorous testing, and a full load burn in.

## Features



SUBCOMPACT SIZE



0-10V Dimming



IP65 Rated Case with Silicone-based Potting



UL Class P Power Supply



90°C Maximum Case Temperature



5 Year Warranty (Minimum at 70°C Tc)

## Model Information

Yingjiao Part number	Input Voltage (Vac)	Output Power Max (w)	Nominal Voltage Output (Vdc)	Iout Max (A)	Dimming Method	Safety,EMC Compliance
SLCV-100-1208300-D	120-277	96	12	8.3	0-10V	UL, cUL, FCC
SLCV-100-2404160-D	120-277	96	24	4.16	0-10V	UL, cUL, FCC
SLCV-100-3602770-D	120-277	96	36	2.7	0-10V	UL, cUL, FCC
SLCV-100-4802080-D	120-277	96	48	2.08	0-10V	UL, cUL, FCC

## Input

Voltage Range:	120-277V
Frequency Range:	47/63HZ
Input Current:	1.05 A @ 115 Vac 0.58 A @ 230 Vac 0.48 A @ 270 Vac
Power Factor (PF):	>0.9
Inrush Current:	Meets NEMA-410 requirements
Leakage Current:	400 uA @ 120 Vac Measured per IEC60950-1 780 uA @ 230 Vac Measured per IEC60950-1 900 uA @ 277 Vac Measured per IEC60950-1
Efficiency:	>92%
THD:	<20%

## Output

Output Voltage:	12V 24V 36V 48V
Output Current:	8.3A 4.16A 2.76A 2.08A
Ripple Range:	≤ 5%
Start-up Time:	<0.5s
Dimming Range:	1%-100%

## Protection

---

<b>Over Load Protection:</b>	105-150% Protection type: Auto Restore
<b>Over Voltage Protection:</b>	105-130% Protection type: Auto Restore
<b>Short Circuit Protection:</b>	Protection type: Auto Restore
<b>Warranty:</b>	5 Years at Tc 70°C

---

## Environment

---

<b>Working Temperature</b>	-20°C...+50°C
<b>Working Humidity</b>	20%-95%RH
<b>Case Temperature (for UL)</b>	+90°C
<b>Case Temperature (for warranty)</b>	+70°C
<b>Relative Humidity</b>	Operating 10 to 90% RH (Non-Condensing) Storage 5 to 95% RH (Non-Condensing)
<b>Environmental Locations</b>	UL Dry & Damp
<b>Storage Temperature</b>	-40°C...+85°C
<b>HSF requirement</b>	Reach, RoHS

---

## Safety and Electromagnetic Compatibility

---

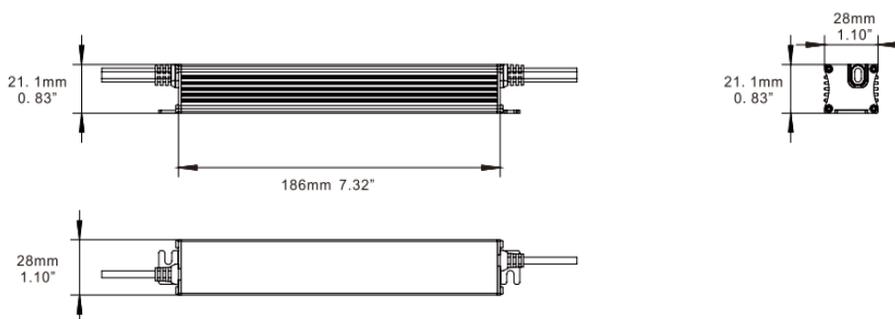
<b>Certifications:</b>	UL, cUL, CE, FCC
<b>Safety Standards:</b>	UL8750 listed Class P; CAN/CSA C22.2 No. 250.13-14 LED equipment for lighting applications; EN61347-2-13 electronic control gear for LED Modules
<b>EMI:</b>	Compliant with FCC CFR Title 47 Part 15 Class B at 120 Vac & Class A at 277 Vac; Compliant with EN55015 (EMC compliance) at 230 Vac
<b>EMS:</b>	EN 61000-4-2; Performance Criteria B EN 61000-4-5; Performance Criteria C

---

# Dimensions & Weight

Length:	186mm / 7.32in
Width:	28mm / 1.10in
Height:	21.1mm / 0.83 in
Weight:	125g

# Spec Drawing



# Label

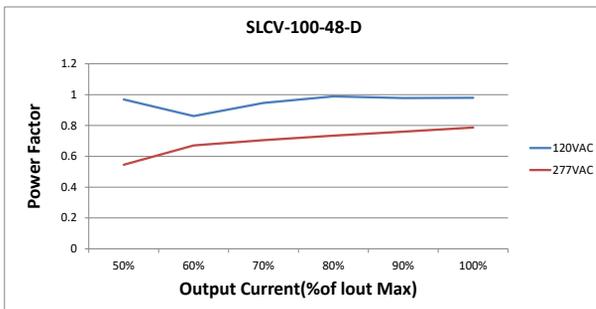
<p><b>YINGJIAO</b><sup>®</sup>          Model:SLCV-100-12-D          Dimmable Constant Voltage LED Driver          Suitable for Operation with a 0-10 v Dimmer Only          Suitable for Dry or Damp Locations</p>	<p>AC INPUT:          120-277V~1,1A          50/60Hz  <math>\lambda \geq 0.9</math>          THD<math>\leq</math> 20%          L: Black          N: White</p>	<p>www.YingjiaoDriver.com            Class 2 Made In China</p>	<p>DC OUTPUT:          Max Current: 83A          Maximum Power:96W          Regulated Voltage:12Vdc          0-10v dimming          etc          +:RED +DIM: Purple          -:BLACK -DIM: Pink</p>
<p><b>YINGJIAO</b><sup>®</sup>          Model:SLCV-100-24-D          Dimmable Constant Voltage LED Driver          Suitable for Operation with a 0-10 v Dimmer Only          Suitable for Dry or Damp Locations</p>	<p>AC INPUT:          120-277V~1,1A          50/60Hz  <math>\lambda \geq 0.9</math>          THD<math>\leq</math> 20%          L: Black          N: White</p>	<p>www.YingjiaoDriver.com            Class 2 Made In China</p>	<p>DC OUTPUT:          Max Current: 4.16A          Maximum Power:96W          Regulated Voltage: 24Vdc          0-10v dimming          etc          +:RED +DIM: Purple          -:BLACK -DIM: Pink</p>
<p><b>YINGJIAO</b><sup>®</sup>          Model:SLCV-100-36-D          Dimmable Constant Voltage LED Driver          Suitable for Operation with a 0-10 v Dimmer Only          Suitable for Dry or Damp Locations</p>	<p>AC INPUT:          120-277V~1,1A          50/60Hz  <math>\lambda \geq 0.9</math>          THD<math>\leq</math> 20%          L: Black          N: White</p>	<p>www.YingjiaoDriver.com            Class 2 Made In China</p>	<p>DC OUTPUT:          Max Current: 2.76A          Maximum Power:96W          Regulated Voltage: 36Vdc          0-10v dimming          etc          +:RED +DIM: Purple          -:BLACK -DIM: Pink</p>
<p><b>YINGJIAO</b><sup>®</sup>          Model:SLCV-100-48-D          Dimmable Constant Voltage LED Driver          Suitable for Operation with a 0-10 v Dimmer Only          Suitable for Dry or Damp Locations</p>	<p>AC INPUT:          120-277V~1,1A          50/60Hz  <math>\lambda \geq 0.9</math>          THD<math>\leq</math> 20%          L: Black          N: White</p>	<p>www.YingjiaoDriver.com            Class 2 Made In China</p>	<p>DC OUTPUT:          Max Current: 2.05A          Maximum Power:96W          Regulated Voltage:48Vdc          0-10v dimming          etc          +:RED +DIM: Purple          -:BLACK -DIM: Pink</p>

# Packing

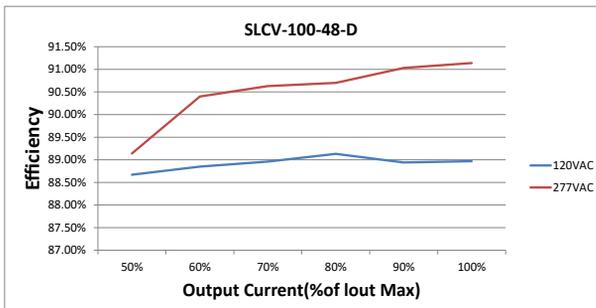
Length x Width x Height:	186x 28 x 21.1 mm 7.32 x 1.10 x 0.83 in
Carton Size:	43 x 27.5 x 33 cm 16.93 x 10.83 x 12.99 in
Master Carton Quantities:	50pcs / Carton

# Feature Curves

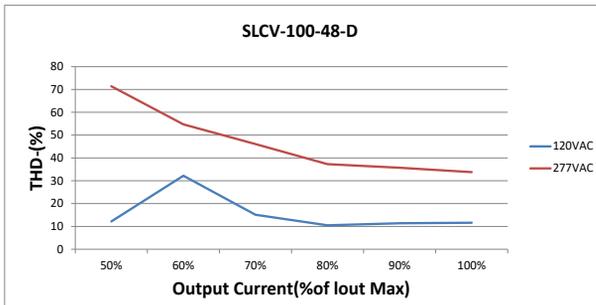
## 1. PF Curve



## 2. Efficiency Curve

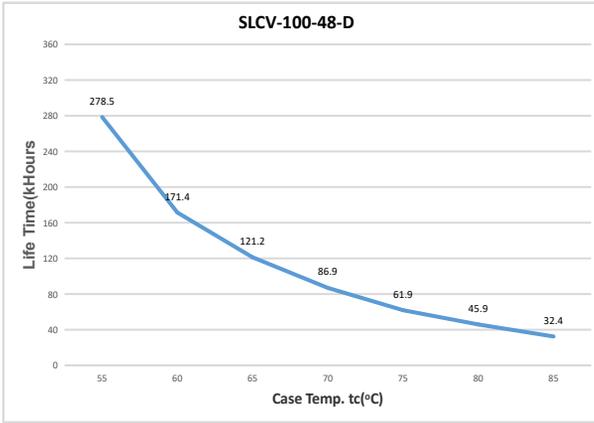


## 3. THD



# Feature Curves

## 4. Driver Lifetime vs. Case Temperature



## 5. Dimming Curve - Dimming Voltage vs. Output Voltage

