



Product Specification Sheet

Part Type : **LED driver**

Description : **2 CHS XX(60-96)W-YYYY(1200-2400)mA Constant Current**
0-10V Dimmable

Part Number : **SLP XXxC-IYYYY 120-277 W D1 L1**

1. Input Requirement

1.1 Input Voltage

The nominal input voltage is 120-277VAC
Operating Range: 108-305VAC

1.2 Frequency

The nominal input frequency is 50Hz/60Hz

1.3 Current

The maximum input current is 2 Amp at 120Vac at max output load of 2400mA each.

1.4 Efficiency

The typical efficiency (watts out / watts in) is 87% @120V and 88% @277V with 96W Each.

1.5 Power Factor

@ 277VAC/60Hz, Full-Load, >0.90
@ 120VAC/60Hz, Full-Load, >0.95

1.6 Inrush Current

120VAC @ 25 Deg C: <100Amp peak

2. Output Requirements

2.1 Output Current Setting

Set nominal current at this voltage.

Output (CH1&CH2)	Voltage (CH1&CH2)	Current (CH1&CH2)	Tolerance (CH1&CH2)
60W	Max 50VDC	1200mA	+/- 5%
70W	Max 50VDC	1400mA	+/- 5%
80W	Max 50VDC	1600mA	+/- 5%
96W	Max 48VDC	2000mA	+/- 5%

2.2 Output Voltage Range

Driver must work at these voltages.

Output (CH1&CH2)	Voltage (CH1&CH2)	Current (CH1&CH2)	Tolerance (CH1&CH2)
60W	30-50VDC	1200mA	+/- 5%
70W	30-50VDC	1400mA	+/- 5%
80W	30-50VDC	1600mA	+/- 5%
96W	30-48VDC	2000mA	+/- 5%

2.3 Output Line Regulation

With output clamped to below set points, vary input from 108-305VAC.

Output	Voltage	Current range
60W	50VDC	1140-1260mA
70W	50VDC	1330-1470mA
80W	50VDC	1320-1480mA
96W	48VDC	1900-2100mA

2.4 Current Stability

+/- 5% maximum after 8 hours

2.5 Max Rated Output Load

Output	Voltage	Current
60W	50VDC	1200mA
70W	50VDC	1400mA
80W	50VDC	1600mA
96W	48VDC	2000mA

2.6 Ripple Factor

Measured at max rated load and electronic load connecting to the output is set as below : $V_d=40V, I_o=2400mA, R_d=0.12$

Ripple factor < 5% ($I_{pk-pk}/2/I_{mean}$)

2.7 No Load Voltage

Not to exceed 60VDC.

2.8 Turn on Delay

Measured @ 120VAC max rated load: < 0.75S.

3. Protection Requirement

3.1 Short circuit protection:

When operating under any line condition into a short circuit condition for an indefinite period of time, the power supply shall be self recovering when fault condition is removed.

3.2 Over-current protection:

When operating under any line condition into any over load condition for an indefinite period of time, the power supply shall be self

4. Environmental Conditions

4.1 Operating

The power supply shall be capable of operating continuously in any mode without performance deterioration in the following environmental conditions:

4.11 Ambient Temperature:

-30 to 55 Deg C. 100% rated power at 55 Deg C.

4.12 Case Temperature

Class P

4.13 Relative Humidity:

5 to 95%, non-condensing

4.14 Cooling:

Convection

4.2 Non-Operating

The power supply shall be capable of standing the following environmental conditions extended periods of time, without sustaining electrical or mechanical damage and subsequent operational deficiencies.

4.2.1 Ambient Temperature:

-40 to 85 Deg C.

4.3 Shock & Vibration:

MIL-STD-810G Shock Method 516.6 procedure IV and Vibration Method 514.6 Procedure I, Category 4

5. Reliability

5.1 MTBF

>300,000hrs calculated to MIL-HDBK217F @ 25 Deg C. rated load.
Ground Benign.

5.2 Product Life

50000Hrs @ Tc= 85 Deg C, rated load.

6. EMC

6.1 Conducted:

FCC Part 15 Class B

6.2 Audible Noise:

Class A sound rating not to exceed 24dBA (audible) when installed in fixture and such fixture is installed in its normal use. The measurement is to be made from a distance not less than 3 feet.

6.3 ESD:

IEC 61000-4-2 Level 2: 2KV Air and Contact.

6.4 Input Transient Protection

Power supply shall comply with IEEE C.62.41-2002, Class A operation.
The line transient shall consist of seven strikes of a 100 kHz ring wave,
2.5kV level for both common mode and differential mode.

7. Safety

7.1 Agency Approvals

UL 8750-LED equipment for use in lighting product

UL1310-CLASS 2 Power units

CSA C22.2 No. 250.13-12-LED equipment for lighting applications

8. Dimmable

8.1 0-10V Dimming

0-10V Input Signal: 0-10V

Dimming Range:6-100%

Dimming to OFF

8.2 PWM Dimming(10V)

8.3 Resistor Dimming

8.4 Isolated dimming

9. Mechanical

9.1 Materials

Metal case

All material to be ROHS compliant to Directive (EU) 2015/863

Wires to be Stranded with UL approval

Input: Black & White : 260mm , 18AWG 105°C 600V stranded wire

Output: Red*2 & Black : 310mm , 18AWG 105°C 600V stranded wire

Dimming: Purple & Gray:160mm , 18AWG 105°C 600V stranded wire

Tolerance: ± 1 Inch

9.2 Size and shape:

