



Product Specification Sheet

Part Type : **LED driver**

Description : **XX(20-40 W) -IYYYY(500-1000mA)**
Constant Current
0-10V Dimmable

Part Number : **SLI XX-IYYYY 120-277 W D1 R**

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 0.45Amp at 120Vac at max output load of 1000mA.

1.4 Efficiency

The typical efficiency (watts out / watts in) is 86% @120V
and 88% @277V with rated load.

1.5 Power Factor

@ 277VAC, >0.90
@ 120VAC, >0.90

1.6 Inrush Current

120VAC @ 25 DEG C: <30Amp peak

2. Output Requirements

2.1 Output Current Setting

Set nominal current at this voltage.

Output	Voltage	Current	Tolerance
25W	Max 50VDC	500mA	+/- 5%
35W	Max 50VDC	700mA	+/- 5%
40W	Max 40VDC	1000mA	+/- 5%
20-40W	Max 50VDC	500-1000mA	+/- 5%

2.2 Output Voltage Range

Driver must work at these voltages.

Output	Voltage	Current	Tolerance
25W	30-50VDC	500mA	+/- 5%
35W	30-50VDC	700mA	+/- 5%
40W	24-40VDC	1000mA	+/- 5%
20-40W	21-50VDC	500-1000mA	+/- 5%

2.3 Output Line Regulation

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

Output	Voltage Set Point	Current range
25W	50VDC	475-1050mA
35W	50VDC	665-735mA
40W	40VDC	950-1050mA

2.4 Current Stability

+/- 5% maximum after 8 hours

2.5 Max Rated Output Load

Output	Voltage Set Point	Current range
25W	50VDC	1050mA
35W	50VDC	735mA
40W	40VDC	1050mA

2.6 Ripple Factor

Measured at max rated load and electronic load connecting to the output is ser as below : $V_d=40V$ $R_d=0.13$

Ripple factor $< 8\%$ ($I_{pk-pk}/2/I_{mean}$).

2.7 No Load Voltage

Not to exceed 60VDC.

2.8 Turn on Delay

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

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 recovering when fault condition is removed.

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:
-20 to 55 Deg C. 100% rated power at 55 Deg C.

4.12 Case Temperature
Claas 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=90C. ambient, rated load.

6. EMC

6.1 Conducted:

FCC Part 15 Class B@120V
FCC Part 15 Class A@277V

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(Surge 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, 2.5 kV 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:5-100%

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

Output: Red & Black : 300mm , 18AWG 105°C 600V

Dimming: Purple & Gray:260mm , 18AWG 105°C 600V

