



## Product Specification Sheet

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**Part Type** : **LED driver**

**Description:** **C(1-4)-ChannelXX(6-30)W-  
YYY(275-700)mA Constant  
Current0-10V Dimmable**

**Part Number** : **SLXXxC-IYYY 120-277 W D1M**

### 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 0.3 Amp at 120Vac at max output load of 60W.

**1.4 Efficiency**

The typical efficiency (watts out / watts in) is 86% @120V and 87% @277V with rated load.

**1.5 Power Factor**

@ 277VAC, >0.95  
@ 120VAC, >0.98

**1.6 Inrush Current**

120VAC @ 25 DEG C: <25Amp peak

**1.7 Total Harmonic Distortion**

@ 277VAC, <15%at max output load

**1.8 Leakage Current**

<0.5mA @277V with rated load between exposed conductive surfaces and the grounding pole of the supply circuit.

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## 2. Output Requirements

### 2.1 Output Current Setting

Set nominal current at this voltage.

Channel	Output Power	Voltage	Current	Tolerance
4	6-15W	Max54 VDC	0.275-0.7A	+/- 5%
3	6-20W	Max54 VDC	0.275-0.7A	+/- 5%
2	6-30W	Max54 VDC	0.275-0.7A	+/- 5%
1	6-30W	Max54 VDC	0.275-0.7A	+/- 5%

### 2.2 Output Voltage Range

Driver must work at these voltages.

Channel	Output Power	Voltage	Current
4	6-15W	20-54VDC	0.275-0.7A
3	6-20W	20-54VDC	0.275-0.7A
2	6-30W	20-54VDC	0.275-0.7A
1	6-30W	20-54VDC	0.275-0.7A

### 2.3 Current Stability

+/- 1.5% maximum after 8 hours

### 2.4 Max Rated Output Load

Channel	Output Power	Voltage
4	6-15W	54max
3	6-20W	54max
2	6-30W	54max
1	6-30W	54max

### 2.5 Ripple Factor

Measured at max rated load and electronic load connecting to the output is set as below:  $V_d=54V$   $R_d=0.15$

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: < 1 seconds.

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### 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 loadcondition for an indefinite period of time, the power supply shall be selfrecovering 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 55Deg C. 100% rated power at 55Deg C.

##### 4.12 Case Temperature&Class P

Tc.:90°C

##### 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.

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#### **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**

>5yrs @ 55Deg C. 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: 4KV Air and Contact.

#### **6.4 Input Transient Protection**

Power supply shall comply with IEEE C.62.41-1991, 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

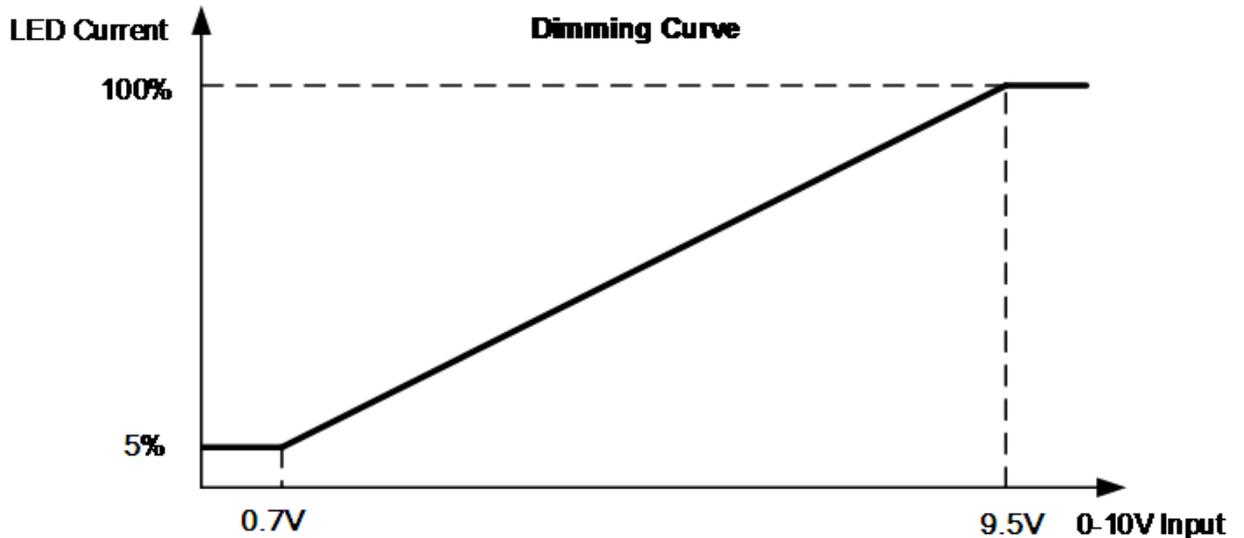
CSA C22.2 No. 250.13-12-LED equipment for lighting applications

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## 8. Dimmable

- 8.1 0-10V Dimming:**  
0-10V Input Signal: 0-10V  
Dimming Range:5-100%

**8.2 Dimming Curve:**



## 9. Mechanical

**9.1 Materials**

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 105°C 600V Strand wire

Output1: Red & Black: 270mm, 20AWG 105°C 300V Strand wire

Output2: Orange & Yellow: 270mm, 20AWG 105°C 300V Strand wire

Output3: Orange & White: 270mm, 20AWG 105°C 300V Strand wire

Output4: Gray & Blue: 270mm, 20AWG 105°C 300V Strand wire

Dimming: Purple & Gray: 250mm, 18AWG 105°C 300V Strand wire

**9.2 Size and shape:**

