

**50W LED用電源(定電流、定電圧)****50W Series**

Driving mode: Constant Current & Constant Voltage with safety isolation  
Technology: Single-Stage PFC & PSR technology  
Output Power: 50 Watt  
Input voltages: 100 to 277 VAC (Maximum voltage range: 90-305 VAC)  
Efficiency: Up to 92%  
Suitable: For high voltage LED lamp and an integrated LED lamp drive  
Warranty: 3 years

**Special Features:**

1. UL8750, EN61347, CSA22.2, cUL, CE safety compliant
2. FCC 47CFR PART 15 Class B and EN55015 compliant
3. Meet the RoHS directive
4. IP64 compliant, suitable for high-temperature, high-dust location
5. Suitable for indoor or outdoor applications
6. Suitable in standard electrical junction boxes
7. Compact, lightweight
8. Single output, ranged from 7Vdc up to 200Vdc
9. Active PFC reduces power consumption
  - a. Isolation between primary and secondary

**Environmental:**

1. Operating temperature: -30 to +60°C
2. Storage temperature range: -40 to +85°C
3. Humidity (non-condensing): 5% - 95%RH
4. Cooling: Free air cooling Convection
5. Vibration Frequency: 5-55Hz/2g, 30 minutes; Impact resistance: 1g/s
6. MTBF @ 40°C: 510,000 hours @ Full Load per MIL-217F Notice 2
7. LIFE @ 25°C: 110,000 hours
8. EMC:

Compliant to CISPR 22 CLASS B, CISPR 14-1 CLASS B, GB4343. 1-2003, GB17625.1-2003

- a. Continuous interference voltage test conforming to GB4343-2003+A1, CISPR 14-1: 1997, EN55014-1:1997-5
- b. Intermittent interference voltage test conforming to GB4343-2003+A1, CISPR 14-1: 1997, EN55014-1:1997-5
- c. Interference power test conforming to GB4343-2003+A1, CISPR 14-1:1997, EN55014-1:1997-6
- d. Harmonic currents test conforming to GB4343-2003+A1, CISPR 14-1:EN 61000-3-2:1995
- e. RF Electromagnetic Field Immunity test conforming to GB/T13926.3, IEC61000-4-3, PrEN55014-2 Section 6.5
- f. Electrical fast transient/burst immunity test conforming to GB/T13926.4, IEC61000-4-4, PrEN55014-2 section 6.2
- g. Voltage dips and short interrupts immunity test conforming to IEC61000-4-11
- h. Voltage variations immunity test conforming to IEC61000-4-11
- i. Electrostatic discharge immunity test conforming to IEC61000-4-11

### Electrical Specifications:

- Input voltage range: 100 to 277 VAC (Maximum voltage range: 90-305 VAC)
- Frequency: 47- 63HZ
- Power Factor: > 92% at full load, Total harmonic distortion(THD): <20% more than 80% load
- Inrush current: <40A at 25°C, 120V, cold start
- Input current: 0.56A at 120V
- Efficiency: 86% (typical), 92% (maximum), at full load, 220V
- Maximum output power: 50W
- Constant Current regulation: ±3% Over Input Line Variation, Load regulation accuracy: ±3%
- Start-up time: <1 s, Output overshoot: <5%
- Leakage current: 300uA (typical)
- Hold up time: half cycle
- Output over-voltage protection function
- Output over-current protection function
- Output short circuit protection: auto-recovery



### Safety & Compliance:

UL8750, EN61347, CSA22.2, CE, FCC, IP64 compliant



### 50W Constant current versions:

No.	Part Number	US Class 2	CN Class 2	Output Voltage Range	Output Constant Current	Current Accuracy	Power <sup>(1)</sup> Factor	Output Power	Max. <sup>(2)</sup> Eff.
1	50W-200-C0250	No	No	120~200Vdc	250mA	±5%	95%	50W	92%
2	50W-142-C0350	No	No	85~142Vdc	350mA	±5%	95%	50W	92%
3	50W-100-C0500	No	No	60~100Vdc	500mA	±5%	95%	50W	92%
4	50W-72-C0700	No	No	43~72Vdc	700mA	±5%	95%	50W	91%
5	50W-54-C0910	Yes	No	32~54Vdc	910mA	±5%	95%	50W	91%
6	50W-48-C1040	Yes	No	29~48Vdc	1040mA	±5%	95%	50W	90%
7	50W-42-C1250	Yes	No	25~41Vdc	1200mA	±5%	95%	50W	89%
8	50W-36-C1400	Yes	Yes	21~36Vdc	1400mA	±5%	95%	50W	88%
9	50W-28-C1750	Yes	Yes	17~28Vdc	1750mA	±5%	95%	56W	87%
10	50W-26-C2100	Yes	Yes	16~26Vdc	2100mA	±5%	95%	50W	86%
11	50W-12-C4200	Yes	Yes	7~12Vdc	4200mA	±5%	95%	50W	85%

### 50W Constant Voltage versions:

No.	Part Number	US Class 2	CN Class 2	Output Voltage	Maximum Output Current	Voltage Accuracy	Power <sup>(1)</sup> Factor	Output Power	Max. <sup>(2)</sup> Eff.
1	50W-48	Yes	No	48Vdc	1040mA	±5%	95%	50W	90%
2	50W-36	Yes	Yes	36Vdc	1400mA	±5%	95%	50W	88%
3	50W-24	Yes	Yes	26Vdc	2100mA	±5%	95%	50W	86%
4	50W-12	Yes	Yes	12Vdc	4200mA	±5%	95%	50W	85%

Note: 1. Typical power factor measured at 220VAC input, full load.

2. Maximum efficiency measured at 220VAC input, full load.

