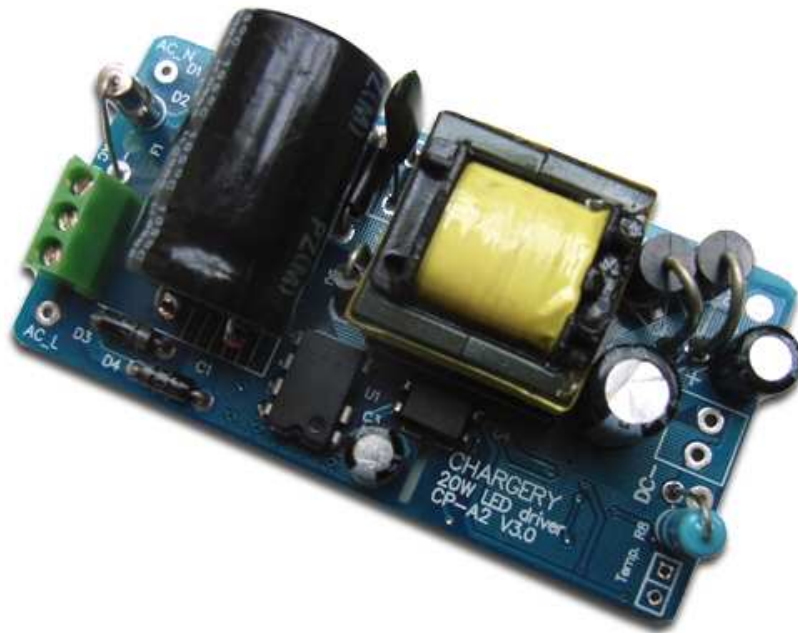




Constant current driver for LED

Model : CP- A2

Version : V3.0



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1. Model: CP - A2

2. Application

The constant current driver is applied for 20W white/blue/Red LED, The LED will be 3S3P.

3. Special Features:

- *Low profile with 20 mm max. height*
- *Universal AC input*
- *Regulated output*
- *Low temperature start with -40°C*
- *Over temperature protection and recovery automatically*
- *Overload and short circuit protection*

4. Environmental

- *Ambient Temperature : -40--50°C*
- *Ambient Humidity : 5%--95%*
- *Storage Temp. : -40°C --85°C*
- *Storage Humidity : 30%--90%*
- *Vibration Frequency : 5 to 50Hz*
- *MTBF: >100,000 Hours at full load and 25°C ambient conditions*

5. Electrical specifications

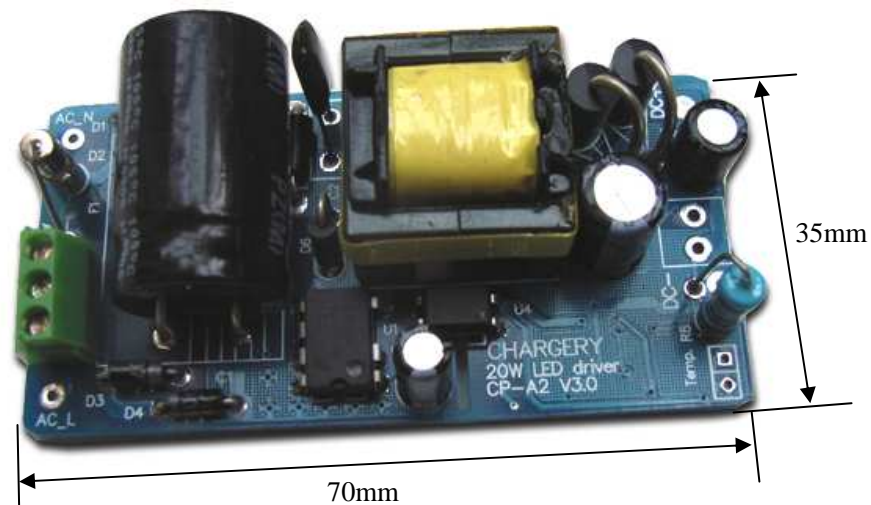
- *Input range : 90~265VAC, Full range*
- *Rated Freq. : 47 to 63Hz*
- *Inrush current : 20.0 Amps maximum at any input range*
- *Input Current : 250mA maximum at 115/230 input range*
- *Efficiency : 83% typical at 120VAC and maximum load*
- *Maximum power : 22W*
- *Voltage regulation: $\pm 3\%$ at constant voltage mode*
- *Hold up time : 10ms minimum at 120VAC and 80% of raged load*
- *Output Voltage : 12.5V max. at no load,*
10.0 ~ 11.0V for white/blue LED at full load,
7.7 ~ 8.0V for red LED at full load
- *Output Current : 2000mA +/- 3%*
- *Over temperature protection: decrease current while heat sink temperature over 58°C and*

recovery automatically under 52°C

- *Other Protection: Overload and short circuit protection, output short circuit auto recovery*

6. Mechanical Characteristics

- *Size : 75*35*20 (L*W*H, mm)*
- *Weight: 40g*
- *AC socket: 3PIN, pin distance of 3.5mm*
- *DC socket: 2PIN, pin distance of 3.5mm*



7. Package:

- *PCBA: 1pcs*
- *Output jack: 1pcs, and input jack is welded on the PCB*
- *Temperature sensor : 10K Ω @25°C,*
- *EVA: 1pcs*

8. Warranty and Service

Chargery Power Co., Ltd. as manufacture of LED driver warrants its AC constant driver to be free of defects in material and workmanship. This warranty is effective for 12 months from date of purchase. If within the warranty period the customer is not satisfied with the products performance resulting from a manufacturing defect the accessory will be replaced or repaired. This warranty does not cover the damage due to wear, overloading, incompetent handling or using of incorrect accessories.