

## 02 SERIES

### 3-9 W AC-DC Constant Current LED Driver



#### Features

- Universal AC input /Full range (up to 264 VAC)
- Constant Current design
- Class 2 Power Supply Unit
- Fully isolated plastic case
- 2 years warranty
- Protections:
  - Short Circuit /
  - Over Temperature

#### Safety Approval



SELV  
EQUIVALENT IP65

#### Specification

| Model No.    |                                                                                                                                                                        | LD-CU3503-02                                                         | LD-CU3536-02    | LD-CU7006-02    | LD-CU7021-02    |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------|-----------------|-----------------|
| Input        | Voltage & Frequency Range                                                                                                                                              | 100-240 V AC; 50 Hz /60 Hz                                           |                 |                 |                 |
|              | AC Current (Max.)                                                                                                                                                      | 0.20 A at 115Vac/ 0.12 A at 230Vac                                   |                 |                 |                 |
|              | Power Factor                                                                                                                                                           | > 0.5 at 115Vac/ > 0.42 at 230Vac with full load.                    |                 |                 |                 |
|              | Inrush Current (Max.)                                                                                                                                                  | < 15A at 240Vac                                                      | < 18A at 240Vac | < 16A at 240Vac | < 20A at 240Vac |
|              | Leakage Current                                                                                                                                                        | < 1mA / 240 Vac                                                      |                 |                 |                 |
| Output       | DC Voltage Range                                                                                                                                                       | 3-12V (*VF=9V)                                                       | 3-36V (*VF=23V) | 3-12V (*VF=9V)  | 3-21V (*VF=13V) |
|              | Constant Current Range                                                                                                                                                 | 350 mA± 5 %                                                          | 350 mA± 5 %     | 690 mA± 5 %     | 690 mA± 5 %     |
|              | Rated Max. Power                                                                                                                                                       | 3W                                                                   | 8W              | 6W              | 9W              |
|              | Ripple & Noise(Max.) note.2                                                                                                                                            | 3.6 Vp-p                                                             | 3.6 Vp-p        | 5.0 Vp-p        | 3.6 Vp-p        |
|              | Efficiency note.1                                                                                                                                                      | 60%                                                                  | 72%             | 60%             | 68%             |
| Protections  | Short Circuit                                                                                                                                                          | Hiccup mode, recovers automatically after fault condition is removed |                 |                 |                 |
| Environment  | Working Temp.                                                                                                                                                          | - 10 °C~ 40 °C ambient operating at full load                        |                 |                 |                 |
|              | Working Humidity                                                                                                                                                       | 20% ~ 90% RH non-condensing                                          |                 |                 |                 |
|              | Storage Temp.,Humidity                                                                                                                                                 | -20 ~ +80℃ ,10% ~ 90% RH                                             |                 |                 |                 |
| Safety & EMC | Safety Standards                                                                                                                                                       | meet EN61347-1,EN61347-2-13 , UL1310                                 |                 |                 |                 |
|              | EMC Standards note.3                                                                                                                                                   | meet EN55015,EN61000-4-2,3,4,5,6,8,11 ,EN61547                       |                 |                 |                 |
|              | Withstand Voltage                                                                                                                                                      | I/P - O/P: 3.75 KVAC                                                 |                 |                 |                 |
|              | Isolation Resistance                                                                                                                                                   | I/P-O/P:100M ohms / 500VDC at 25 °C                                  |                 |                 |                 |
| Connection   | Input                                                                                                                                                                  | UL rated, 20 AWGx 2 C( 150 mm)                                       |                 |                 |                 |
|              | Output                                                                                                                                                                 | UL rated, 20 AWGx 2 C( 150 mm)                                       |                 |                 |                 |
| Others       | MTBF                                                                                                                                                                   | 100K hours min. @Ta=25 °C                                            |                 |                 |                 |
|              | Dimension(L*W*H)                                                                                                                                                       | 73.5 ( 65 ) * 35 * 23 mm                                             |                 |                 |                 |
|              | Packing(L*W*H)/Carton                                                                                                                                                  | 360 * 240 * 190 mm; 100 pcs / 11.0Kg                                 |                 |                 |                 |
| Note         | 1. All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C ambient temperature.                                                      |                                                                      |                 |                 |                 |
|              | 2. Ripple & Noise are measured at 20MHZ bandwidth oscilloscope and with 0.1uf & 47uf parallel capacitor.                                                               |                                                                      |                 |                 |                 |
|              | 3. The power supply is considered a component which will be installed a final equipment. The final equipment must be re- confirmed that it still meets EMC directives. |                                                                      |                 |                 |                 |

#### Mechanical Specification

#### Wiring Diagram

