



Reliable

Efficient

Intelligent

**Universal, Reliable and Long Lasting. The Power for Wireless, Intelligence, and the Future.**

The Cita Technologies CPWLD 25 is a conservatively rated, highly reliable, all-weather LED driver specifically suited for the modern demands of commercial solid state lighting. A universal input / output design adapts to a wide range of line and string voltages, allowing for worldwide implementation from a single SKU. Fully variable Multiple Dimming Control delivers analog-like smoothness with zero flicker. Cita is proud to design and manufacture all of its own LED drivers, and stands behind them with a 5 year limited warranty.

**KEY FEATURES:**

- **Universal Input and Output (100VAC - 305VAC)**
- **Excellent 0-10V dimming performance with no flicker**
- **Compatible with IEC 60929:2006 - 0-10V ballast controls**
- **Ultra compact design**
- **Product Assurance: 5 Year Limited Warranty**  
(see warranty terms for more information)
- Smooth light output promotes longer LED life
- Fully optimized design produces clean waveforms, reducing noise and stress on components.
- Multiple Dimming control interface and wireless ready
- Fully potted design meets UL IP67
- Highly reliable in wet locations
- Excellent protection features with auto recovery for all conditions
- Long Lifetime Expectancy: >100K hours @ 50°C ambient / full load
- Low standby (Off) power: 0.6W @ 120VAC; 1.5W @ 230VAC

**APPLICATIONS:**

Wide Variety of LED lighting fixtures:

- Indoor and outdoor
- Dimming and non dimming
- Industrial, commercial, and residential
- Worldwide acceptance
- Wireless mesh network ready



**UL INFORMATION:**

- 25W LED Driver  
CC up to 1050mA, 60VDC  
CV up to 1050mA, 12V-60VDC
- EN60950-1, 2nd Edition, Class 2, IP67
- UL File: E354816

**ORDERING INFORMATION:**

- **CPWLD 25-36U-070:**  
12-42VDC @ 700mA, Dimming
- **CPWLD 25-56U-035:**  
12-60VDC @ 350mA, Dimming
- **CPWLD 25-xxU-yyy:**  
Custom CC models
- **CPWLD 25-zz-00:**  
Custom CV Models  
zz = 12, 24, 36, 48, 60 or upon request

**CITA Technologies, L.L.C.**

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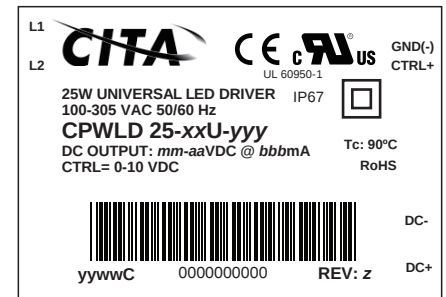
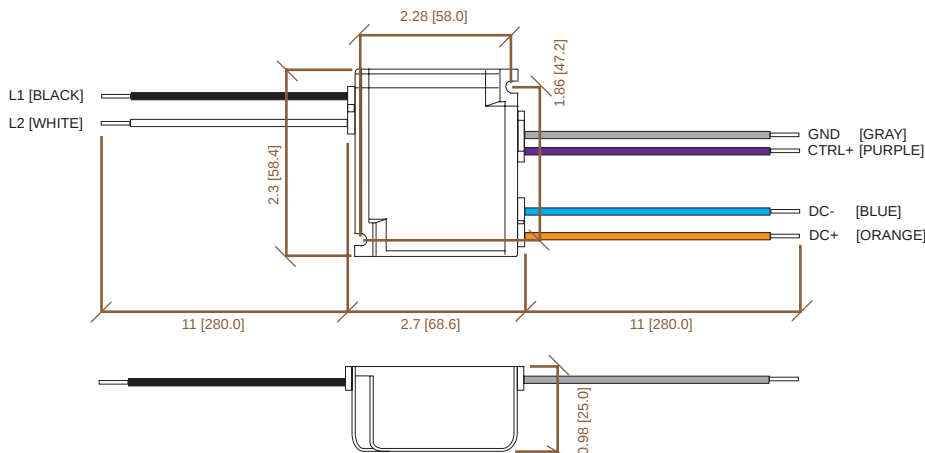
[citapower.com](http://citapower.com)

## Operating Specifications

| Electrical                  |                                                                                                                                                               | Environmental                                                                                                                                                                                                                      |                      |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Input Voltage Range</b>  | 100 - 305VAC (47-63Hz)                                                                                                                                        | <b>Operating Temperature</b>                                                                                                                                                                                                       | -30°C to +70°C       |
| <b>Input Power</b>          | Max 30W                                                                                                                                                       | <b>Case Temperature</b>                                                                                                                                                                                                            | +90°C maximum        |
| <b>Isolation</b>            | 3000VAC / 1 minute                                                                                                                                            | <b>Storage Temperature</b>                                                                                                                                                                                                         | -40°C to +105°C      |
| <b>Inrush Current</b>       | 60A at 230VAC, 25°C cold start                                                                                                                                | <b>Ingress Protection</b>                                                                                                                                                                                                          | IP67                 |
| <b>Power Factor</b>         | 98% @120VAC<br>>90% @230VAC                                                                                                                                   | <b>Case Material</b>                                                                                                                                                                                                               | UL94V-0 Plastic (F1) |
| <b>Output Power</b>         | Max 25W                                                                                                                                                       | <b>Safety Agency Approvals</b>                                                                                                                                                                                                     |                      |
| <b>Output Voltage Range</b> | -035 version: 350mA +/-2%, 12-60VDC, 4-18 LED string<br>-070 version: 700mA +/-2%, 12-42VDC, 4-12 LED string<br>All models with turn off capability (DIM <1V) |                                                                                                                                                                                                                                    |                      |
| <b>Auxiliary Output</b>     | None                                                                                                                                                          | EN60950-1, 2nd edition, Class 2, IP67, for wet location use<br><br>UL file number: E354816, standards:<br>UL 60950-1, 2nd Edition<br><br>CSA C22.2 No. 60950-1-07, 2nd Edition                                                     |                      |
| <b>Efficiency</b>           | Typical, full load, 25W = 85%                                                                                                                                 |                                                                                                                                                                                                                                    |                      |
| <b>MTBF</b>                 | >500,000 hours @ 50°C ambient, full load                                                                                                                      | CB Certificate No: E354816-A1-CB-1,<br><br>Standards:<br>IEC 60950-1(ed.2),<br>IEC 60950 1(ed.2);am1<br>EN 60950-1:2006/<br>A11:2009/ A1:2010/<br>A12:2011<br><br>EMI Standards:<br>CE, EN 55022, Class B;<br>FCC Part 15, Class B |                      |
| <b>Lifetime</b>             | >100,000 hours @ 50°C ambient, full load<br>>27,000 hours @ 70°C ambient, full load                                                                           |                                                                                                                                                                                                                                    |                      |
| <b>Dimming Control</b>      | 0-10VDC (10% to 100% dimming)<br>0-10VDC 300mA dimming compatible with IEC60929:2006 controllable ballasts<br>Potentiometer<br>PWM dimming (1KHz/10VDC)       |                                                                                                                                                                                                                                    |                      |
| <b>Robust Protection</b>    | OVP, OCP, SCP, OTP                                                                                                                                            |                                                                                                                                                                                                                                    |                      |
| Mechanical                  |                                                                                                                                                               |                                                                                                                                                                                                                                    |                      |
| <b>Main Body Size</b>       | L x W x H: 2.70" x 2.30" x 0.98"<br>Weight: 0.30 lb<br>See drawing below for details                                                                          |                                                                                                                                                                                                                                    |                      |

### Notes:

- This product is not intended to function with TRIAC dimmer
- Wire Leads: Input: 18AWG, 105°C, 600V; Output: 22AWG, 105°C, 600V



xx: Nominal voltage  
 yy: Nominal constant current (mA)  
 mm: Minimum Voltage  
 aa: Open circuit or maximum voltage  
 bbb: Nominal constant current  
 yywwC: Date code yyww, followed by letter "C" for mfg location  
 z: Product revision

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