



Reliable

Efficient

Intelligent

**Universal Input, Universal Output. Reliable and Long Lasting with No Flicker**

The Cita Technologies CPWLD 13 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
- 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:**

- 13W 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 13-18U-070:  
12-22VDC / 700mA / Dimming
- CPWLD 13-36U-035:  
12-42VDC / 350mA / Dimming
- CPWLD 13-xxU-yyy:  
Custom CC models
- CPWLD 13-zz-00:  
Custom CV Models  
zz = 12, 24, 36, 48, 60 or upon request

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

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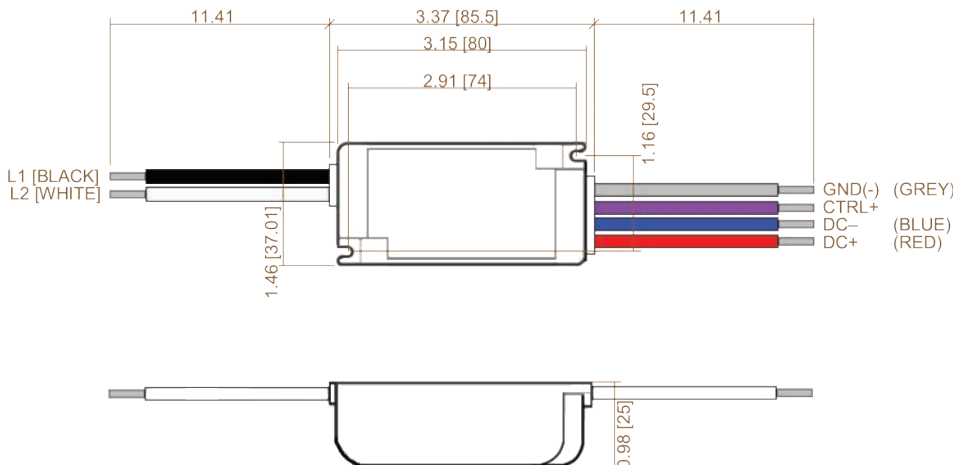
citapower.com

**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 16W	<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>	60% Typical	<b>Case Material</b>	UL94V-0 Plastic (F1)
<b>Output Voltage Range</b>	-035 version: 350mA +/-2%, 12-36VDC, 4-12 LED string -070 version: 700mA +/-2%, 12-18VDC, 4-5 LED string All models with turn off capability (DIM <1V)	<b>Safety Agency Approvals</b>	
<b>Output Power</b>	Max 13W	EN60950-1, 2nd edition, Class 2, IP67, for wet location use	CB Certificate No: E354816-A1-CB-1
<b>Auxiliary Output</b>	No Aux Output	UL file number: E354816, standards: UL 60950-1, 2nd Edition	Standards: IEC 60950-1(ed.2), IEC 60950 1(ed.2);am1 EN 60950-1:2006/ A11:2009/ A1:2010/ A12:2011
<b>Efficiency</b>	Typical, full load, 13W = 83% Typical, min. LED string (5), or at -30°C = 70%	CSA C22.2 No. 60950-1-07, 2nd Edition	EMI Standards: CE, EN 55022, Class B; FCC Part 15, Class B
<b>MTBF</b>	>500,000 hours @ 50°C ambient, full load		
<b>Lifetime</b>	>100,000 hours @ 50°C ambient, full load >27,000 hours @ 70°C ambient, full load		
<b>Dimming Control</b>	0-10VDC (10% to 100% dimming) 0-10VDC dimming compatible with IEC60929:2006 controllable ballasts Potentiometer PWM dimming (1KHz/10VDC)		
<b>Robust Protection</b>	OVP, OCP, SCP, OTP		
Mechanical			
<b>Main Body Size</b>	L x W x H: 3.37" x 1.46" x 0.98" Weight: 0.30 lb See drawing below for details		

**Notes:**

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



**CITA** CE c RoHS  
UL 60950-1

13W UNIVERSAL LED DRIVER IP67  
100-305 VAC 50/60 Hz

L1 **CPWLD 13-XXU-YYY** Tc: 90°C GND(-)  
DC OUTPUT: 12-AAVDC @ BBBmA RoHS CTRL+  
L2 CTRL= 0-10 VDC DC- DC+

yywwC 000000000 REV: z

XX: Nominal voltage: 12-56VDC  
 YYY: Nominal constant current (mA)  
 AA: Open circuit or maximum voltage: 15-60VDC  
 BBB: Nominal constant current  
 yywwC: Date code yyww, followed by letter "C" for mfg location  
 Z: Product revision

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