



# DRIVER SPECIFICATION—UC32

INTEGRATED DRIVER FOR UNICAB FIXTURE

## MODEL LIST

Model Name	Rated Input Voltage	Rated Output Power	Rated Output Voltage	Output Current	Class
ULD16W-36-C0400	120–277 VAC	16W	30–42 VDC	380-420mA	2

## SPECIFICATIONS

Parameters	Symbols	Test Conditions/ Comment	Min	Typ	Max	Units
<b>INPUT</b>						
Input Voltage	$V_{IN}$	0-10V Dimming	100		305	VAC
Input Frequency	$f_{line}$		47	50/60	63	Hz
Input Current	$I_{IN}$	Full Load, $V_{IN} = 120$ VAC			0.15	A
		Full Load, $V_{IN} = 230$ VAC			0.07	A
		Full Load, $V_{IN} = 277$ VAC			0.06	A
<b>GENERAL CHARACTERISTICS</b>						
Power Factor	PF	100% Load, $V_{IN} = 120$ VAC	0.95			
		100% Load, $V_{IN} = 230$ VAC	0.85			
		100% Load, $V_{IN} = 277$ VAC	0.80			
Efficiency	$\eta$	Full Load, $V_{IN} = 120$ VAC	87	88	89	%
		Full Load, $V_{IN} = 230$ VAC	86	87	88	%
		Full Load, $V_{IN} = 277$ VAC	85	86	87	%
Turn On Delay Time	$T_{on\_delay}$	Cold Start, No Dimmer		0.3	0.5	S
Leakage Current	$I_{Leakage}$	$V_{IN} = 277$ VAC/60Hz			0.5	mA
<b>OUTPUT</b>						
Output Voltage	$V_{OUT}$		30	36	40	V
Output Current	$I_{OUT}$	0-10V Dimming	14		420	mA
Output Current	$I_{OUT}$	No Dimming	380	400	420	mA
<b>0-10V</b>						
The 0-10V is a dimming manner that can be used to dim the output voltage via a standard commercial wall dimmer (0-10VDC) or an external control voltage source (0-10VDC) or external resistor. The dimming range is 100% $V_{OUT}$ to 5% $V_{OUT}$ . When $V_{DIM}$ is 8-10VDC, the output voltage maintains 100% $V_{OUT}$ , and when $V_{DIM}$ is below 0.6V, the output voltage is 5% $V_{OUT}$ .						
Absolute Maximum Voltage on 0-10V Pin	$V_{DIM}$		-2		15	V
Source Current on 0-10V Dimming Pin	$I_{DIM}$			100		$\mu$ A
<b>PROTECTION</b>						
Over Voltage Protection	$V_{OVP}$	Latch Off Mode			45	V
Short Circuit Protection		Power supply will recover automatically after fault conditions are removed.				
No Load Protection		Power supply will recover automatically after loading.				
<b>ENVIRONMENT</b>						
Storage Temperature	$T_{Storage}$	Humidity: 5% RH to 95% RH	-40	-	85	$^{\circ}$ C
Operating Relative Humidity	$H_a$	Non Condensing	10		90	%
<b>OTHERS</b>						
Life Time	$T_{Life}$	Full Load, 120 VAC Input, 50 $^{\circ}$ C Case Temp.	50			KHrs
Dimension L x W x H		6.69" x 1.22" x 0.83" (170 mm x 31 mm x 21 mm)				
<b>SAFETY COMPLIANCE</b>						
ETL Listed		UL8750 Compliance to UL1310 Class 2, CSA-C22.2 No. 107.1				
<b>EMC COMPLIANCE</b>						
FCC Part 15B		Conducted Emission Test and Radiated Emission Test				
Note: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25 $^{\circ}$ C and $V_{IN} = 100-277$ VAC.						