



DRIVER SPECIFICATION—UC40

INTEGRATED DRIVER FOR UNICAB FIXTURE

MODEL LIST

Model Name	Rated Input Voltage	Rated Output Power	Rated Output Voltage	Output Current	Class
ULD20W-36-C0500	120–277 VAC	20W	30–42 VDC	480-520mA	2

SPECIFICATIONS

Parameters	Symbols	Test Conditions/ Comment	Min	Typ	Max	Units
INPUT						
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			0.18	A
		Full Load, $V_{IN} = 230$ VAC			0.09	A
		Full Load, $V_{IN} = 277$ VAC			0.08	A
GENERAL CHARACTERISTICS						
Power Factor	PF	100% Load, $V_{IN} = 120$ VAC	0.95			
		100% Load, $V_{IN} = 230$ VAC	0.9			
		100% Load, $V_{IN} = 277$ VAC	0.85			
Efficiency	η	Full Load, $V_{IN} = 120$ VAC	86	87	88	%
		Full Load, $V_{IN} = 230$ VAC	87	88	89	%
		Full Load, $V_{IN} = 277$ VAC	86	89	88	%
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
OUTPUT						
Output Voltage	V_{OUT}		30	36	40	V
Output Current	I_{OUT}	0-10V Dimming	20		520	mA
Output Current	I_{OUT}	No Dimming	480		520	mA
0-10V						
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		μ A
PROTECTION						
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.				
ENVIRONMENT						
Storage Temperature	$T_{Storage}$	Humidity: 5% RH to 95% RH	-40	-	85	$^{\circ}$ C
Operating Relative Humidity	H_a	Non Condensing	10		90	%
OTHERS						
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)				
SAFETY COMPLIANCE						
ETL Listed		UL8750 Compliance to UL1310 Class 2, CSA-C22.2 No. 107.1				
EMC COMPLIANCE						
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.						