



**L.T.F.**

# UniDriver Series Dimmable LED Driver

**40W DS40W-0000 120-277V UniDriver Series  
Constant Voltage**

**UNIDRIVER**

True Tri Mode Dimming • ELV, TRIAC & 0-10V • 100-277V



<b>Efficiency</b>	> 80%
<b>Power Factor</b>	> 0.9
<b>Case TC</b>	85°C Max.
<b>Protection</b>	Input / Output
<b>Storage</b>	-30°C / +90°C
<b>Humidity</b>	95% RH Max.
<b>IP Rating</b>	IP 67
<b>Class</b>	Class 2 Power Supply
<b>Dimming</b>	0-10V, TRIAC, ELV



**RoHS**



YEAR WARRANTY  
\* Ask for more information

## FEATURES

- Universal Input 120V-277V AC 50/60Hz
- **True Tri Mode Dimming** at all input voltages 0-10V, ELV & Triac
- Smooth, flicker free dimming 100%-0.1%
- Title 24 Compliant, AAA rating
- Class 2 power supply
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements
- Auto-reset; short circuit, overload and thermal protection
- Low profile, small form factor, junction box mountable
- Efficient, High power factor > 0.90

## MODEL NUMBER KEY (Constant Voltage)

(L)	DS	96W	24V	BR1	UD	(REO)	-3002
UL Listed (Option)	Input Voltage DS = 120-277VAC DA = 120VAC DE = 277VAC DU = 220-240VAC	Wattage	24V DC Constant Voltage	Case Form Factor	UniDriver Series Tri-Mode Dimmable	Remote Enclosure RE = Indoor REO = Outdoor (Option)	Internal Code

## ELECTRICAL SPECIFICATIONS (Constant Voltage)

Constant Voltage					
Model #	Input Voltage	Wattage	Output Voltage	Load	Form Factor
DS40W12VLSUD-0000	120-277V AC, 0.4A, 50/60Hz	40W	12V DC	12V DC LED, 3.33A Max.	LS3
DS40W24VLSUD-0000			24V DC	24V DC LED, 1.67A Max.	
DS40W48VLSUD-0000			48V DC	48V DC LED, 0.83A Max.	

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MECHANICAL SPECS

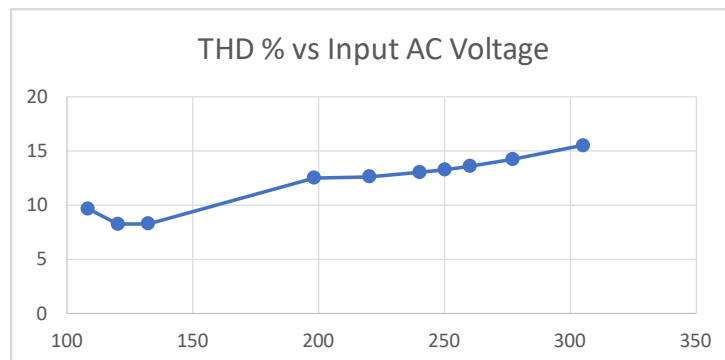
Form Factor	Dimensions
"LS3"	298 (282)mm x 30mm x 20mm

LS3



ELECTRICAL CHARACTERISTICS (Full Power, No Dimming)

VAC	I <sub>in</sub> (mA)	P <sub>in</sub> (W)	PF	THD %	V <sub>out</sub> (V)	I <sub>out</sub> (mA)	IFP (min.)	IFP (max)	P <sub>out</sub> (W)	Effi.	Flicker
108	414.6	44.52	0.993	9.67	23.66	1537	1375	1685	36.37	81.7%	10.1%
120	383.2	45.65	0.992	8.26	23.88	1576	1405	1720	37.63	82.4%	10.1%
132	346.6	45.31	0.989	8.31	23.89	1577	1410	1745	37.67	83.1%	10.6%
198	232	44.47	0.967	12.53	23.89	1580	1410	1730	37.75	84.9%	10.2%
220	212	44.5	0.953	12.65	23.89	1580	1410	1730	37.75	84.8%	10.2%
240	198.1	44.6	0.937	13.04	23.89	1580	1410	1730	37.75	84.6%	10.2%
250	192.4	44.68	0.928	13.28	23.89	1584	1410	1730	37.84	84.7%	10.2%
260	187.5	44.79	0.918	13.61	23.89	1584	1410	1730	37.84	84.5%	10.2%
277	180.2	44.96	0.9	14.24	23.89	1580	1410	1730	37.75	84.0%	10.2%
305	171.2	45.29	0.866	15.5	23.89	1580	1410	1730	37.75	83.3%	10.2%

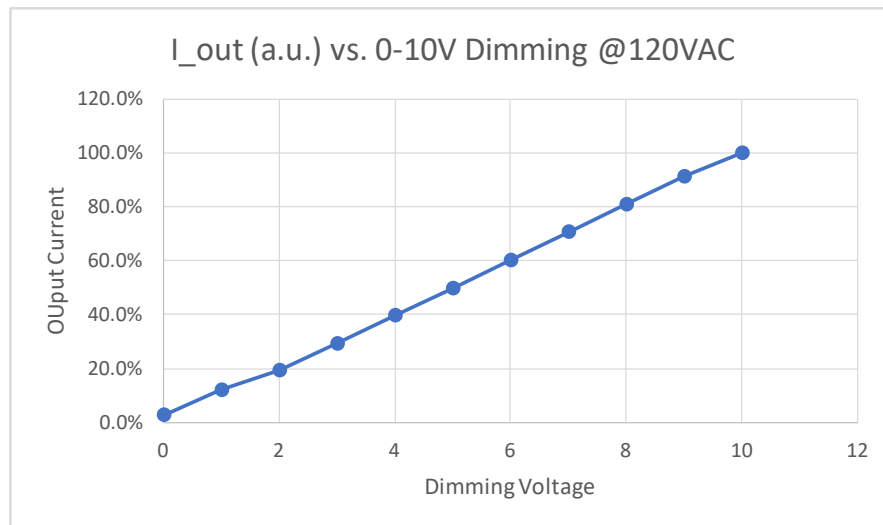




DIMMING CHARACTERISTICS

120V AC 0-10V Dimming

Dim V	I <sub>in</sub> (mA)	P <sub>in</sub> (W)	PF	THD %	V <sub>out</sub> (V)	I <sub>out</sub> (mA)	IFP (min.)	IFP (max)	P <sub>out</sub> (W)	Effi.	Flicker
10	370.4	44.13	0.991	8.21	23.7	1534	1185	1680	36.36	82.4%	17.3%
9	327.8	38.97	0.99	8.19	23	1400	1245	1540	32.20	82.6%	10.6%
8	279.9	33.19	0.987	8.42	22.15	1241	1118	1358	27.49	82.8%	9.7%
7	236.5	27.88	0.983	8.81	21.31	1085	968	1188	23.12	82.9%	10.2%
6	195.9	22.94	0.976	9.57	20.45	923	818	1010	18.88	82.3%	10.5%
5	158.4	18.35	0.965	10.58	19.58	763	688	842	14.94	81.4%	10.1%
4	125	14.25	0.949	11.91	18.73	609	544	666	11.41	80.0%	10.1%
3	94.2	10.41	0.92	14.07	17.82	448	399	493	7.98	76.7%	10.5%
2	68.5	7.11	0.864	17.71	16.94	296	264	324	5.01	70.5%	10.2%
1	52.3	4.93	0.784	22.39	16.25	184	165	201	2.99	60.6%	9.8%
0	34.3	2.19	0.53	41.65	15.21	42	40	45	0.64	29.2%	5.9%

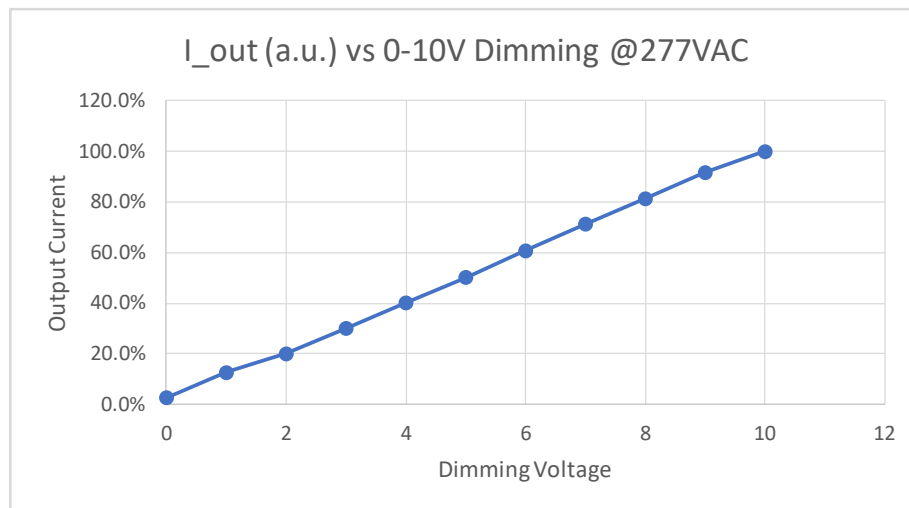




**DIMMING CHARACTERISTICS (Continued)**

**277V AC 0-10V Dimming**

Dim V	I <sub>in</sub> (mA)	P <sub>in</sub> (W)	PF	THD %	V <sub>out</sub> (V)	I <sub>out</sub> (mA)	IFP (min.)	IFP (max)	P <sub>out</sub> (W)	Effi.	Flicker
10	176.1	43.73	0.896	14.43	23.71	1548	1380	1690	36.70	83.9%	10.1%
9	161.1	39.14	0.876	15.26	23	1420	1260	1550	32.66	83.4%	10.3%
8	144.1	33.85	0.847	16.52	22.15	1260	1130	1376	27.91	82.4%	9.8%
7	128.9	29.02	0.812	18.23	21.32	1105	1000	1206	23.56	81.2%	9.3%
6	114.3	24.31	0.767	20.78	20.44	941	850	1030	19.23	79.1%	9.6%
5	100.8	20	0.715	23.91	19.57	779	700	850	15.25	76.2%	9.7%
4	88.2	16.16	0.661	27.61	18.71	623	560	675	11.66	72.1%	9.3%
3	76.8	12.75	0.598	32.59	17.83	467	425	501	8.33	65.3%	8.2%
2	71.7	9.22	0.463	48.54	16.95	311	290	349	5.27	57.2%	9.2%
1	59.2	6.61	0.404	51.9	16.25	196	196	196	3.19	48.2%	0.0%
0	34.2	2.55	0.268	32.27	15.21	43	43	43	0.65403	0.26%	0



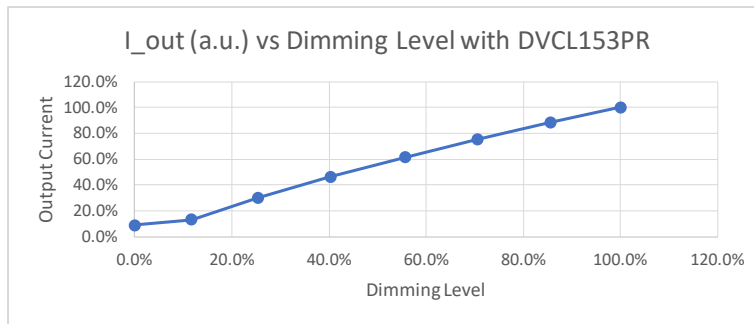


**40W DS40W-0000 120-277V UniDriver Series  
Constant Voltage**

**DIMMING CHARACTERISTICS (Continued)**

**CL Dimming (DVCL-153PR)**

Dim %	I <sub>in</sub> (mA)	P <sub>in</sub> (W)	PF	V <sub>out</sub> (V)	I <sub>out</sub> (mA)	IFP (min.)	IFP (max.)	P <sub>out</sub> (W)	Effi.	Flicker
100	413.2	46.57	0.952	23.89	1570	1340	1740	37.51	80.5%	13.0%
85	391.6	39.85	0.878	22.89	1388	1150	1565	31.77	79.7%	15.3%
70	368.2	32.85	0.786	21.77	1183	944	1364	25.75	78.4%	18.2%
55	339	25.92	0.684	20.6	967	756	1124	19.92	76.9%	19.6%
40	299.1	18.77	0.571	19.29	726	556	858	14.00	74.6%	21.4%
25	248.5	11.81	0.444	17.88	472	354	564	8.44	71.5%	22.9%
10	172.3	5.42	0.282	16.36	210	159	260	3.44	63.4%	24.1%
0	145.1	3.81	0.233	15.9	137	105	169	2.18	57.2%	23.4%



**ELV Dimming (SELV-300P)**

Dim %	I <sub>in</sub> (mA)	P <sub>in</sub> (W)	PF	V <sub>out</sub> (V)	I <sub>out</sub> (mA)	IFP (min.)	IFP (max.)	P <sub>out</sub> (W)	Effi.	Flicker
100	404.6	45.09	0.927	23.69	1530	1330	1760	36.25	80.4%	13.9%
85	375.1	39.15	0.869	22.84	1370	1180	1615	31.29	79.9%	15.6%
70	340.4	32.33	0.791	21.79	1179	996	1424	25.69	79.5%	17.7%
55	304	25.39	0.696	20.63	964	798	1180	19.89	78.3%	19.3%
40	263.9	28.65	0.589	19.4	737	598	926	14.30	49.9%	21.5%
25	213.2	11.84	0.463	17.99	483	384	616	8.69	73.4%	23.2%
10	143.9	5.21	0.301	16.35	203	159	262	3.32	63.7%	24.5%
0	108.7	2.99	0.229	15.65	100	81	131	1.57	52.3%	23.6%

