

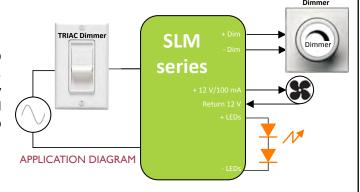


## Tri-Mode Dimming (TRIAC, ELV & 0-10 V) High Power CC LED Drivers with 0.01-100% Dimming Range

Input Voltage	Max. Output Power	Output Voltage	Output Current	Efficiency	Max. Case Temperature	THD	Power Factor	Dimming Method	Dimming Range	Startup Time	
120 to 277 Vac typical	160 W	21 to 85 Vdc	1.8 A to 3.9 A CC	≥ 90% typical	90°C (measured at the hot spot)	< 20%	> 0.9	Reverse-Phase & 0 - 10V	0.01 - 100% (% of lout)	0.5 sec	

#### PRODUCT DESCRIPTION

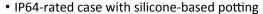
The SLM series of LED drivers is ideally suited for LED lighting applications in stage and studio environments. These devices are compatible with most industry standard, reverse-phase (trailing edge) wall-based dimmers, and 0-10V wall-based dimmers and offer deep dimming from 100% down to 0.01%.



#### FEATURES

- Compatible with ELV (reverse-phase or trailing-edge) and 0-10 V dimmers
- TRIAC and ELV dimming only at 120 Vac
- 12 V/100 mA auxiliary output
- Protections: output open load, short-circuit (latch-off), and overtemperature with auto recovery
- Conducted and radiated EMI: Compliant with FCC CFR Title 47 Part 15 Class A (120 and 277 Vac) and EN55015 (CISPR 15) at 220/230/240 Vac
- Enables ENERGY STAR® and DLC (DesignLight Consortium®) luminaire compliance DESIGNLIGHTS





- 90°C maximum case hot spot temperature
- Double-insulated power supply between input and output
- Worldwide safety approvals CB





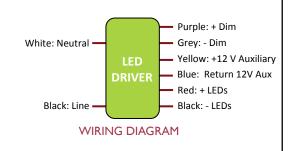
## **ALUMINUM CASE:** L 101.6 x W 50.8 x H 38.5mm

 $(L4 \times W2 \times H1.52 in)$ 

#### APPLICATIONS

- Stage lighting
- Studio lighting
- LED display signage





SLM Series Preliminary Data Sheet February 09, 2016 - Rev. P3





## Tri-Mode Dimming (TRIAC, ELV & 0-10 V) High Power CC LED Drivers with 0.01-100% Dimming Range

#### I - INPUT SPECIFICATION (@25°C ambient temperature)

			•		
	Units	Minimum	Typical	Maximum	Notes
Input Voltage Range (Vin)	Vac	90	120/220/230/	305	The rated output current for each model is achieved at
input voitage Range (viii)	Vac	30	240/277	303	Vin ≥ 115 Vac and at Vin ≥ 209 Vac, at nominal load.
Input Frequency Range	Hz	47	60	63	
Power Factor (PF)		0.9	> 0.9		At nominal input voltage and with nominal LED voltage
Inrush Current		Meets I	NEMA-410 requ	irements	At any point on the sine wave and 25°C
Leakage Current	μΑ			500 μΑ	Measured at nominal input voltage per IEC60950-1
Input Harmonics	Com	olies with IE	C61000-3-2 for	Class C equipment	
Total Harmonics Distortion (THD)				20%	•At nominal input voltage and nominal LED voltage •Complies with DLC (DesignLight Consortium) technical requirements v2.1
Efficiency	%	-	90%	-	Measured with nominal input voltage, a full sinusoidal wave form and without dimmer connected
Isolation	Meets	UL60950-1	for class II reinf	orced/double insula	ation power supply 🔲

#### 2 - OUTPUT SPECIFICATION (@25°C ambient temperature)

	Units	Minimum	Typical	Maximum	Notes
			MA	AIN CONSTAI	NT CURRENT OUTPUT
Output Voltage (Vout)	Vdc	21		85	See ordering information for details
Output Current (lout)	mA	1800		3900	<ul> <li>See ordering information for details</li> <li>The rated output current for each model is achieved at Vin ≥ 115 Vac and at Vin ≥ 209 Vac, at nominal load.</li> </ul>
Output Current Regulation	%	-5	±2.5	5	At nominal AC line voltage     Includes load and current set point variations
Output Current Overshoot	%	-	-	10	The driver does not operate outside of the regulation requirements for more than 500 ms during power on with nominal LED load and without dimmer.
Ripple Current	:		odel M160W-3		Measured at nominal LED voltage and nominal input voltage without dimming.      Calculated in accordance with the IES Lighting Handbook, 9th edition.
Dimming Range (% of lout)	%	0.1		100	The dimming range will be dependent on each specific dimmer.
Start-up Time	S		0.5		With nominal LED voltage, nominal AC line voltage and without dimmer attached

			12 V AU	XILIARY CON	ISTANT VOLTAGE OUTPUT
<b>Output Voltage (Vout)</b>	Vdc	10.2	12	13.2	The voltage regulation is $+10\%/-15\%$ and the ripple voltage shall be $\leq 0.4V$ .
Output Current (lout)	mA		100		

#### **OUTPUT CONTROLS**

+Dim Signal, -Dim Signal

The +Dim/-Dim signal pins can be used to adjust the output setting via a standard commercial wall dimmer, an external control voltage source (0 to 10 Vdc), or a variable resistor when using the recommended number of LEDs. The dimming input permits 0.1% to 100% dimming.





## Tri-Mode Dimming (TRIAC, ELV & 0-10 V) High Power CC LED Drivers with 0.01-100% Dimming Range

#### 3 - ENVIRONMENTAL CONDITIONS

	Units	Minimum	Typical	Maximum	Notes
Operating Case Temperature (Tc)	°C	-20		+90	Case temperature measured at the hot spot
					•tc (see label in page)
Storage Temperature	°C	-40		+85	
Humidity	%	5	-	95	Non-condensing
Cooling	Forced	air cooling is re	quired for cont	inuous power e	exceeding 120 W
Acoustic Noise	dBA			24	Measured at a distance of 1 foot (30 cm)
Acoustic Noise	UDA			24	without and with approved dimmers
<b>Mechanical Shock Protection</b>	per EN	50068-2-27			
Vibration Protection	per EN	60068-2-6 & EN	60068-2-64		
MTBF	> 200,0	00 hours when	operated at no	minal input an	d output conditions, and at Tc ≤ 70°C
Lifetime	• = 0 000	) hours at To = 7	0°C		
(See graphs "Lifetime vs. Case and	'	) hours at Tc = 7			
Ambient Temperature" in section)	• ivieast	ired at the hot s	pot (see not spo	ot •tc on label ir	i pagej

#### 4 - EMC COMPLIANCE AND SAFETY APPROVALS

		EM	1C Compliance
Conducted and Radia	ited EMI		Part 15 Class A at 120 Vac and Class A at 277 Vac 15) at 220/230/240 Vac
Harmonic Current Em	nissions	IEC61000-3-2	For Class C equipment
Voltage Fluctuations	& Flicker	IEC61000-3-3	
-	ESD (Electrostatic Discharge)	IEC61000-4-2	6 kV contact discharge, 8 kV air discharge, level 3
	RF Electromagnetic Field Susceptibility	IEC61000-4-3	3 V/m, 80 - 1000 MHz, 80% modulated at a distance of 3 meters
Immunity	<b>Electrical Fast Transient</b>	IEC61000-4-4	± 2 kV on AC power port for 1 minute, ±1 kV on signal/control lines
Compliance	Surge	IEC61000-4-5	$\pm$ 2 kV line to line (differential mode) / $\pm$ 4 kV line to common mode ground (tested to secondary ground) on AC power port, $\pm$ 0.5 kV for outdoor cables
	Conducted RF Disturbances	IEC61000-4-6	3 V, 0.15-80 MHz, 80% modulated
	Voltage Dips	IEC61000-4-11	>95% dip, 0.5 period; 30% dip, 25 periods; 95% reduction, 250 periods
Transient Protection	Ring Wave		ANSI/IEEE c62.41.1-2002 & c62.41.2-2002 category A, 2.5 kV ring wave

	Safety Agency Approvals	
UL	JL8750 recognized	
cUL	CSA C22.2 No.250.13-14	

			Safety		
	Units	Minimum	Typical	Maximum	Notes
Hi Pot (High Potential)	Vdc	2500			<ul> <li>Insulation between the input (AC line and Neutral) and the output</li> <li>Tested at the RMS voltage equivalent of 1768 Vac</li> </ul>





## Tri-Mode Dimming (TRIAC, ELV & 0-10 V) High Power CC LED Drivers with 0.01-100% Dimming Range

#### 5 - PROTECTION FEATURES

#### **Under-Voltage (Brownout)**

The SLM series provides protection circuitry such that an application of an input voltage below the minimum stated in paragraph 1 (Input Specification) shall not cause damage to the driver.

#### Short Circuit

The SLM series is protected such that a short from any output to return shall not result in a fire hazard or shock hazard. In the event of a short, the driver shuts down and latches off as a result of short circuit fault for main output. Removal of fault and AC recycling returns the driver to normal operation.

#### **Internal Over temperature Protection**

The SLM series incorporates circuitry that prevents internal damage due to an over temperature condition. An over temperature condition may be a result of an excessive ambient temperature or as a result of an internal failure. When the over temperature condition is removed, the driver shall automatically recover.

#### **Output Open Load**

When the LED load is removed, the output voltage of the SLM series is limited to 1.3 times the maximum output voltage of each model.

#### 230 Vac Protection

The SLM series is compatible with ELV dimming only at 120 Vac. 230 Vac ELV dimming is not supported in the SLM series. However, in the event that someone tries to TRIAC-dim or ELV-dim the SLM series at 230 Vac, it has been added a protection to clamp the internal bus and keep it in safe operating mode.





## Tri-Mode Dimming (TRIAC, ELV & 0-10 V) High Power CC LED Drivers with 0.01-100% Dimming Range

#### 6 - PHASE-CUT DIMMING

The SLM series offers dual dimming compatibility with reverse-phase (trailing-edge) phase-cut ELV dimmers and 0–10V dimmers. ELV dimming is only offered at 120 Vac.

Figures 1 and 2 show the typical output current versus conduction angle at nominal input voltage.

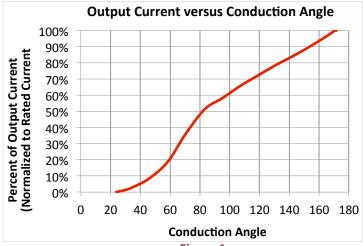


Figure 1

#### 7 - COMPATIBLE PHASE-CUT ELV DIMMERS

Leviton: Vizia VPE06 Leviton: IllumaTech IPE04 Lutron: Diva DVELV-303P Lutron: Skylark SELV-300P Lutron: Mestro MAELV-600 Lutron: Faedra FAELV-500 Lightolier: Sunrise ZP260QE

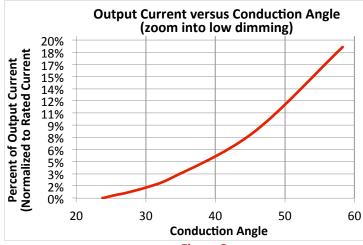


Figure 2





## Tri-Mode Dimming (TRIAC, ELV & 0-10 V) High Power CC LED Drivers with 0.01-100% Dimming Range

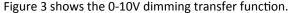
#### 8 - 0-10 V DIMMING

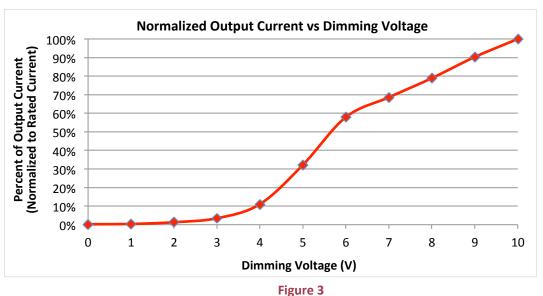
The SLM drivers operate only with 0-10V dimmers that sink current. They are not designed to operate with 0-10V control systems that source current, as used in theatrical/entertainment systems. Developed in the 1980's, the 0-10V sinking current control method is adopted by the International Electrotechnical Commission (IEC) as apart of their IEC Standard 60929 Annex E.

The method to dim the output current of the driver is done via the +Dim/-Dim Signal pins. The +Dim/-Dim Signal pins respond to a 0 to 10 V signal, delivering 1% to 100% of the output current based on rated current for each model. A pull-up resistor is included internal to the driver. When the +Dim input (purple) is short circuited to the -Dim wire (grey) or to the -LED wire (black), there is no output current. When the +Dim input (purple) is  $\leq 1$  V, the output current is programmed to  $\leq 10\%$  of rated current. If the +Dim input is >10V or open circuited, the output current is programmed to 100% of the rated current.

When not used, the –Dim wire (grey) and to the +Dim wire (purple) can be capped or cut off. In this configuration, no dimming is possible and the driver delivers 100% of its rated output current.

The maximum source current (flowing from the driver to the 0-10V dimmer) supplied by the +Dim Signal pin is  $\leq$  2.5 mA. The tolerance of the output current while being dimmed shall be +/-8% typical until down to 2V.





#### 9 - COMPATIBLE 0-10 V DIMMERS

- Lutron, Nova series (part number NFTV)
- Lutron, Diva series (part number DVTV)
- Leviton: IllumaTech IP710-DL





## Tri-Mode Dimming (TRIAC, ELV & 0-10 V) High Power CC LED Drivers with 0.01-100% Dimming Range

#### 10 - MECHANICAL DETAILS

Packaging Options: Aluminum extruded case

I/O Connections: Flying leads, 18 AWG on power leads, 18 AWG on control leads, 203 mm (8 in) long, 105°C rated,

stranded, stripped by approximately 9.5mm, and tinned. All the wires, on both input and output,

have a 300 V insulation rating.

**Ingress Protection:** IP64 rated

Mounting Instructions: The driver must be secured on a flat surface through the four mounting tabs, shown here below in

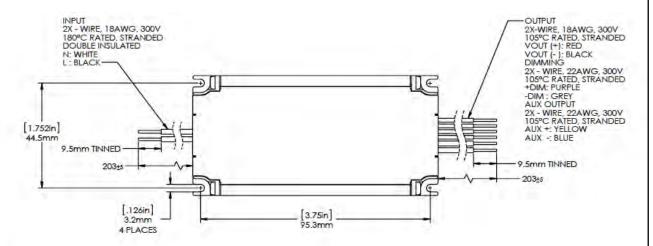
the case outline drawings

#### II - OUTLINE DRAWINGS

**Dimensions:** L 101.6 x W 50.8 x H 38.5 mm (L 4.0 x W 2.0 x H 1.52 in)

**Volume:** 198.7 cm<sup>3</sup> (12.13 in<sup>3</sup>)

Weight:



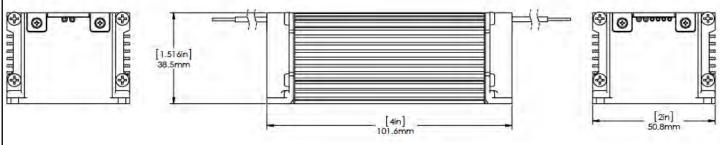


Figure 4





## Tri-Mode Dimming (TRIAC, ELV & 0-10 V) High Power CC LED Drivers with 0.01-100% Dimming Range

# Series Nominal Vin Iout Vout Max. • 100 (up to 100 W) • W (120 to

277 Vac)

• 130 (121 - 130 W) • 150 (141 - 150 W)

#### Notes:

- Forced air cooling is required for total continuous power exceeding 120 W
- For additional options of output current and output voltage, contact your sales representative or send an email to: SaveEnergy@ERPPowerLLC.com

	Ordering Part Number	Input Voltage Range (Vac)	Max Output Power (W)	lout (A)	Vout min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)	No Load Voltage (Vdc)		
	SL	M100W: 90	to 100 W	(1%-100%	dimmi	ng)				
	SLM100W-2.8-34	120 to 277	95.2	2.8	27	30.6	34	44.2		
	SLI	<b>M140W: 13</b> 1	l to 140 W	(1%-100%	6 dimm	ing)				
	SLM140W-2.8-50	120 to 277	140.0	2.8	40	45.0	50	60		
	SLI	M150W: 141	l to 150 W	(1%-100%	ဖ dimm	ing)				
	SLM150W-3.0-48	120 to 277	144.0	3	38.4	43.2	48	60		
	SLI	M160W: 151	l to 160 W	(1%-100%	6 dimm	ing)				
	SLM160W-1.8-85	120 to 277	153.0	1.8	68	76.5	85	100		
۲	SLM160W-3.7-42	120 to 277	155.4	3.7	30	37.8	42	50		
>	SLM160W-3.9-40	120 to 277	156.0	3.9	30	36.0	40	50		
Ĭ	SLM160W-4.4-36	120 to 277	158.4	4.4	28	32.4	36	46.8		
	SLN	1100W: 90 t	o 100 W (	0.01%-100	% dimr	ning)				
	SLM100W-2.8-34-P01		95.2	2.8	27	30.6	34	44.2		
	SLM	140W: 131	to 140 W (	0.01%-100	0% dim	ming)				
	SLM140W-2.8-50-P01	120 to 277	140.0	2.8	40	45.0	50	60		
	SLM160W: 151 to 160 W (0.01%-100% dimming)									
	SLM160W-1.8-85-P01	120 to 277	153.0	1.8	68	76.5	85	100		
	SLM160W-4.4-36-P01	120 to 277	158.4	4.4	28	32.4	36	46.8		
			24							
	Ordering Part Number	Input Voltage Range (Vac)	Max Output Power (W)	lout (A)	Vout min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)			
	Number	Voltage Range	Output Power (W)		min (Vdc)	Nom (Vdc)	Max	Voltage		
	Number S	Voltage Range (Vac)	Output Power (W)		min (Vdc)	Nom (Vdc)	Max	Voltage		
	Number SLM100E-2.8-34	Voltage Range (Vac) LM100E: 90	Output Power (W) to 100 W 95.2	(1%-1 <b>00</b> % 2.8	min (Vdc) dimm	Nom (Vdc) ing) 30.6	Max (Vdc)	Voltage (Vdc)		
	Number S SLM100E-2.8-34 SL	Voltage Range (Vac) LM100E: 90	Output Power (W) to 100 W 95.2	(1%-1 <b>00</b> % 2.8	min (Vdc) dimm	Nom (Vdc) ing) 30.6	Max (Vdc)	Voltage (Vdc)		
J.¥	Number S SLM100E-2.8-34 SL SLM140E-2.8-50	Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131	Output Power (W) to 100 W 95.2 to 140 W	2.8 (1%-100% 2.8 (1%-100%	min (Vdc) 6 dimm 27 6 dimm 40	Nom (Vdc) ing) 30.6 ing) 45.0	Max (Vdc)	Voltage (Vdc)		
ノなる	Number S SLM100E-2.8-34 SL SLM140E-2.8-50 SL	Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240	Output Power (W) to 100 W 95.2 to 140 W	2.8 (1%-100% 2.8 (1%-100%	min (Vdc) 6 dimm 27 6 dimm 40	Nom (Vdc) ing) 30.6 ing) 45.0	Max (Vdc)	Voltage (Vdc)		
ノギ つす:	SLM100E-2.8-34 SLM140E-2.8-50 SL SLM160E-1.8-85 SLM160E-3.9-42	Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240 M160E: 151 220 to 240 220 to 240	Output Power (W) to 100 W 95.2 to 140 W 140.0 to 160 W 153.0 163.8	2.8 (1%-100% 2.8 (1%-100% 1.8 3.9	min (Vdc) 6 dimm 27 6 dimm 40 6 dimm 68 30	Nom (Vdc) ing) 30.6 ing) 45.0 ing) 76.5	Max (Vdc)  34  50  85  42	44.2 60 100 50		
<b>ライス ロサフト</b>	SLM100E-2.8-34  SLM140E-2.8-50  SL SLM160E-1.8-85 SLM160E-3.9-42	Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240 M160E: 151 220 to 240	Output Power (W) to 100 W 95.2 to 140 W 140.0 to 160 W	(1%-100% 2.8 (1%-100% 2.8 (1%-100% 1.8	min (Vdc) 6 dimm 27 6 dimm 40 6 dimm 68	Nom (Vdc) ing) 30.6 ing) 45.0 ing) 76.5	Max (Vdc)  34  50  85	44.2 60 100		
747 C47-077	SLM100E-2.8-34 SLM140E-2.8-50 SL SLM160E-1.8-85 SLM160E-3.9-42 SLM160E-4.4-36	Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240 M160E: 151 220 to 240 220 to 240	Output Power (W) to 100 W 95.2 to 140 W 140.0 to 160 W 153.0 163.8 158.4	2.8 (1%-100% 2.8 (1%-100% 2.8 (1%-100% 1.8 3.9 4.4	min (Vdc) 3 dimmi 27 40 40 68 30 28	Nom (Vdc) 30.6 ing) 45.0 ing) 76.5 37.8 32.4	Max (Vdc)  34  50  85  42	44.2 60 100 50		
<b>247-047-077</b>	SLM100E-2.8-34 SLM140E-2.8-50 SL SLM160E-1.8-85 SLM160E-3.9-42 SLM160E-4.4-36	Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240 220 to 240 220 to 240 220 to 240	Output Power (W) to 100 W 95.2 to 140 W 140.0 to 160 W 153.0 163.8 158.4	2.8 (1%-100% 2.8 (1%-100% 2.8 (1%-100% 1.8 3.9 4.4	min (Vdc) 3 dimmi 27 40 40 68 30 28	Nom (Vdc) 30.6 ing) 45.0 ing) 76.5 37.8 32.4	Max (Vdc)  34  50  85  42	44.2 60 100 50		
247 047-022	SLM100E-2.8-34  SLM140E-2.8-50  SLM160E-1.8-85  SLM160E-3.9-42  SLM160E-4.4-36  SLM140E-2.8-50-P01	Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240 220 to 240 220 to 240 220 to 240	Output Power (W) to 100 W 95.2 to 140 W 140.0 to 160 W 153.0 163.8 158.4	2.8 (1%-100% 2.8 (1%-100% 2.8 (1%-100% 1.8 3.9 4.4	min (Vdc) 3 dimmi 27 40 40 68 30 28 0% dim 40	Nom (Vdc) ing) 30.6 ing) 45.0 ing) 76.5 37.8 32.4 ming) 45.0	Max (Vdc)  34  50  85  42  36	Voltage (Vdc)  44.2  60  100  50  46.8		
247 047-077	SLM100E-2.8-34  SLM140E-2.8-50  SLM160E-1.8-85  SLM160E-3.9-42  SLM160E-4.4-36  SLM140E-2.8-50-P01	Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240 220 to 240 220 to 240 220 to 240 1140E: 131 t 220 to 240 1160E: 151 t	Output Power (W) to 100 W 95.2 to 140 W 140.0 to 160 W 153.0 163.8 158.4	2.8 (1%-100% 2.8 (1%-100% 2.8 (1%-100% 1.8 3.9 4.4	min (Vdc) 3 dimmi 27 40 40 68 30 28 0% dim 40	Nom (Vdc) ing) 30.6 ing) 45.0 ing) 76.5 37.8 32.4 ming) 45.0	Max (Vdc)  34  50  85  42  36	Voltage (Vdc)  44.2  60  100  50  46.8		
220-240 VAC	SLM100E-2.8-34 SLM100E-2.8-34 SLM140E-2.8-50 SLM160E-1.8-85 SLM160E-3.9-42 SLM160E-4.4-36 SLM SLM140E-2.8-50-P01 SLM	Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240 M160E: 151 220 to 240 220 to 240 220 to 240 1140E: 131 t 220 to 240 1160E: 151 t	Output Power (W) to 100 W 95.2 to 140 W 140.0 to 160 W 153.0 163.8 158.4 to 140 W 140.0 to 160 W	2.8 (1%-100% 2.8 (1%-100% 1.8 3.9 4.4 0.01%-100 2.8	min (Vdc) 3 dimm 27 40 6 dimm 68 30 28 0% dim 40 0% dim	Nom (Vdc)  ing)  30.6  ing)  45.0  ing)  76.5  37.8  32.4  ming)  45.0  ming)	Max (Vdc)  34  50  85  42  36	Voltage (Vdc)  44.2  60  100  50  46.8		

SaveEnergy@ERPpowerllc.com

www.ERPpowerllc.com





## Tri-Mode Dimming (TRIAC, ELV & 0-10 V) High Power CC LED Drivers with 0.01-100% Dimming Range

13 - LABELING

Figure 5

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