

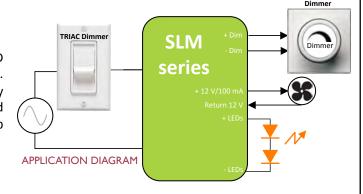


Tri-Mode Dimming (TRIAC, ELV & 0-10 V) High Power CC LED Drivers with 0.01-100% Dimming Range

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



- IP64-rated case with silicone-based potting
- 90°C maximum case hot spot temperature
- Double-insulated power supply between input and output
- Worldwide safety approvals CB





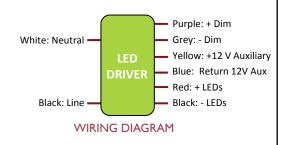


APPLICATIONS

- Stage lighting
- Studio lighting
- LED display signage



1







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	 See ordering information for details The rated output current for each model is achieved at Vin ≥ 115 Vac and at Vin ≥ 209 Vac, at nominal load.
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
Output Voltage (Vout)	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
	The +Dim/-Dim signal pins can be used to adjust the output setting via a standard commercial wall dimmer, an
+Dim Signal, -Dim Signal	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	Forced air cooling is required for continuous power 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			
Mechanical Shock Protection	per EN	50068-2-27						
Vibration Protection	per EN	50068-2-6 & EN	60068-2-64					
MTBF	> 200,000 hours when operated at nominal input and 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		nt eta an labal in	a naga)			
Ambient Temperature" in section)	vivieast	ired at the hot s	por (see not spo	or •rc on label if	i page)			

4 - EMC COMPLIANCE AND SAFETY APPROVALS

4 - EMC COM	PLIANCE AND SAFET	I APPROVALS				
		EMC	Compliance			
Conducted and Radiated EMI		•FCC CFR Title 47 Part 15 Class A at 120 Vac and Class A at 277 Vac •EN55015 (CISPR 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	Electrical Fast Transient	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			•Insulation between the input (AC line and Neutral) and the output
					•Tested at the RMS voltage equivalent of 1768 Vac





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.

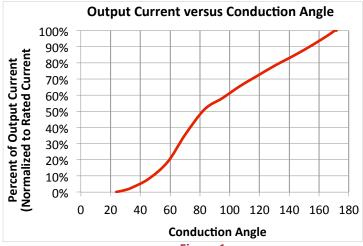


Figure 1

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

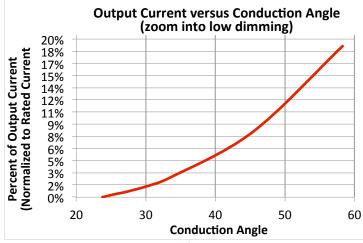


Figure 2





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

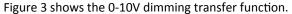
8 - 0-10 V DIMMING

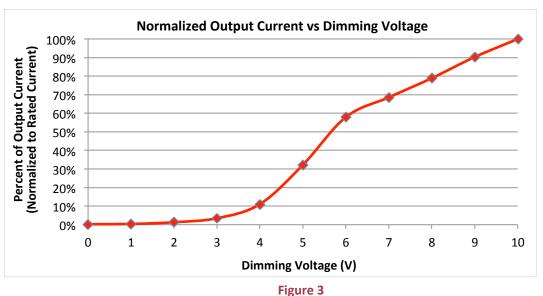
The SLM drivers operate only with 0-10V dimmers that sink current. They are not designed to operate with 0-10V control systems that source current, as used in theatrical/entertainment systems. Developed in the 1980's, the 0-10V sinking current control method is adopted by the International Electrotechnical 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 ≤ 1 V, the output current is programmed to $\le 10\%$ of rated current. If the +Dim input is > 10V or open circuited, the output current is programmed to $\le 100\%$ 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

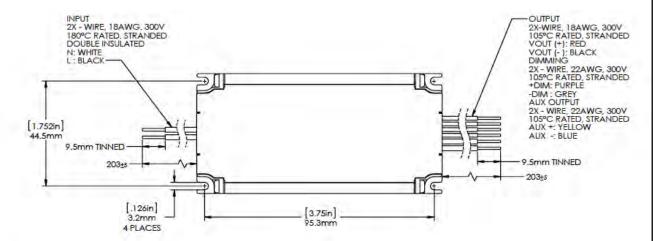
the case outline drawings

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 cm³ (12.13 in³)

Weight:



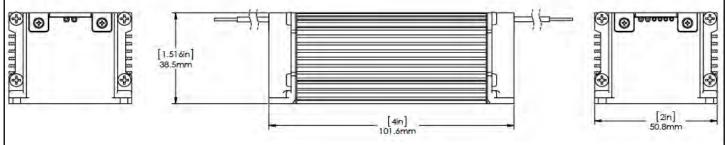


Figure 4





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

12 - ORDERING INFORMATION - MODEL DESCRIPTION SLM **Nominal Vin** lout •100 (up to 100 W) • W (120 to • 130 (121 - 130 W) • 150 (141 - 150 W)

277 Vac)

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				
	SL	M140W: 13	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				
	SL	M150W: 14	l to 150 W	(1%-100%	6 dimm	ing)						
	SLM150W-3.0-48	120 to 277	144.0	3	38.4	43.2	48	60				
	SL	M160W: 15	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				
ر	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				
2	SLM160W-4.4-36	120 +- 277	150.4	4.4	20	22.4	20	46.0				
H	SLIVI160W-4.4-36	120 to 277	158.4	4.4	28	32.4	36	46.8				
	SLN	/100W: 90 t	o 100 W (0	0.01%-100	% dimr	ning)						
	SLM100W-2.8-34-P01		95.2	2.8	27	30.6	34	44.2				
	SLM140W: 131 to 140 W (0.01%-100% dimming)											
	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				
	Ordering Part Number	Input Voltage Range (Vac)	Max Output Power (W)	4.4 lout (A)	Vout min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)	No Load Voltage (Vdc)				
	Ordering Part Number	Input Voltage Range	Max Output Power (W)	lout (A)	Vout min (Vdc)	Vout Nom (Vdc)	Vout Max	No Load				
	Ordering Part Number	Input Voltage Range (Vac)	Max Output Power (W)	lout (A)	Vout min (Vdc)	Vout Nom (Vdc)	Vout Max	No Load				
	Ordering Part Number S SLM100E-2.8-34	Input Voltage Range (Vac) LM100E: 90	Max Output Power (W) to 100 W	lout (A) (1%-100% 2.8	Vout min (Vdc) dimm	Vout Nom (Vdc) ing)	Vout Max (Vdc)	No Load Voltage (Vdc)				
	Ordering Part Number S SLM100E-2.8-34	Input Voltage Range (Vac) LM100E: 90	Max Output Power (W) to 100 W	lout (A) (1%-100% 2.8	Vout min (Vdc) dimm	Vout Nom (Vdc) ing)	Vout Max (Vdc)	No Load Voltage (Vdc)				
C	Ordering Part Number S SLM100E-2.8-34 SL SLM140E-2.8-50	Input Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131	Max Output Power (W) to 100 W 95.2 to 140 W	(1%-100% 2.8 (1%-100% 2.8	Vout min (Vdc) 6 dimm 27 6 dimm 40	Vout Nom (Vdc) ing) 30.6 ing) 45.0	Vout Max (Vdc)	No Load Voltage (Vdc)				
VAC	Ordering Part Number S SLM100E-2.8-34 SL SLM140E-2.8-50	Input Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240	Max Output Power (W) to 100 W 95.2 to 140 W 140.0	lout (A) (1%-100% 2.8 (1%-1009 2.8 (1%-1009)	Vout min (Vdc) 6 dimm 27 6 dimm 40	Vout Nom (Vdc) ing) 30.6 ing) 45.0	Vout Max (Vdc)	No Load Voltage (Vdc)				
10 VAC	Ordering Part Number S SLM100E-2.8-34 SL SLM140E-2.8-50	Input Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240 M160E: 151	Max Output Power (W) to 100 W 95.2 to 140 W	(1%-100% 2.8 (1%-100% 2.8	Vout min (Vdc) 6 dimm 27 6 dimm 40 6 dimm	Vout Nom (Vdc) ing) 30.6 ing) 45.0	Vout Max (Vdc)	No Load Voltage (Vdc)				
-240 VAC	Ordering Part Number S SLM100E-2.8-34 SL SLM140E-2.8-50	Input Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240 M160E: 151 220 to 240	Max 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	Vout min (Vdc) dimm 27 dimm 40 dimm 68	Vout Nom (Vdc) ing) 30.6 ing) 45.0 ing) 76.5	Vout Max (Vdc) 34 50	No Load Voltage (Vdc) 44.2				
20-240 VAC	Ordering Part Number S SLM100E-2.8-34 SL SLM140E-2.8-50	Input Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240 M160E: 152 220 to 240 220 to 240 220 to 240	Max Output Power (W) to 100 W 95.2 to 140 W 140.0 to 160 W 153.0 163.8 158.4	(1%-100% 2.8 (1%-100% 2.8 (1%-100% 1.8 3.9 4.4	Vout min (Vdc) 6 dimm 27 6 dimm 40 6 dimm 68 30 28	Vout Nom (Vdc) ing) 30.6 ing) 45.0 ing) 76.5 37.8 32.4	Vout Max (Vdc) 34 50 85 42	No Load Voltage (Vdc) 44.2 60 100 50				
220-240 VAC	Ordering Part Number S SLM100E-2.8-34 SL SLM140E-2.8-50 SL SLM160E-1.8-85 SLM160E-3.9-42 SLM160E-4.4-36 SLM	Input Voltage Range (Vac) LM100E: 90 220 to 240 .M140E: 131 220 to 240 220 to 240 220 to 240 220 to 240 210 to 240	Max Output Power (W) to 100 W 95.2 to 140 W 140.0 to 160 W 153.0 163.8 158.4	10ut (A) 2.8 (1%-100% 2.8 (1%-100% 1.8 3.9 4.4	Vout min (Vdc) 6 dimm 27 6 dimm 40 6 dimm 68 30 28	Vout Nom (Vdc) ing) 30.6 iing) 45.0 iing) 76.5 37.8 32.4	Vout Max (Vdc) 34 50 85 42 36	No Load Voltage (Vdc) 44.2 60 100 50 46.8				
220-240 VAC	Ordering Part Number S 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	Input Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240	Max Output Power (W) 95.2 1 to 140 W 140.0 153.0 163.8 158.4	10ut (A) (1%-100% 2.8 (1%-100% 2.8 (1%-100% 1.8 3.9 4.4 0.01%-100%	Vout min (Vdc) 6 dimm 27 6 dimm 40 6 dimm 28 30 28	Vout Nom (Vdc) 30.6 45.0 45.0 37.8 32.4 ming) 45.0	Vout Max (Vdc) 34 50 85 42	No Load Voltage (Vdc) 44.2 60 100 50				
220-240 VAC	Ordering Part Number S 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	Input Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240 220 to 240 220 to 240 1140E: 131 220 to 240 1140E: 151	Max 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 (10ut (A) (1%-100% 2.8 (1%-1009 1.8 3.9 4.4 0.01%-100 2.8	Vout min (Vdc) 27 6 dimm 40 6 dimm 68 30 28 30 40 dimm 40	Vout Nom (Vdc) 30.6 45.0 45.0 37.8 32.4 45.0 45.0 45.0 45.0 45.0 45.0 45.0 45	Vout Max (Vdc) 34 50 85 42 36	No Load Voltage (Vdc) 44.2 60 100 50 46.8				
220-240 VAC	Ordering Part Number S 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	Input Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240 220 to 240 220 to 240 1140E: 131 220 to 240 1140E: 151	Max Output Power (W) 95.2 1 to 140 W 140.0 153.0 163.8 158.4	10ut (A) (1%-100% 2.8 (1%-100% 2.8 (1%-100% 1.8 3.9 4.4 0.01%-100%	Vout min (Vdc) 6 dimm 27 6 dimm 40 6 dimm 28 30 28	Vout Nom (Vdc) 30.6 45.0 45.0 37.8 32.4 ming) 45.0	Vout Max (Vdc) 34 50 85 42 36	No Load Voltage (Vdc) 44.2 60 100 50 46.8				
220-240 VAC	Ordering Part Number S 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	Input Voltage Range (Vac) LM100E: 90 220 to 240 M140E: 131 220 to 240 220 to 240 220 to 240 1140E: 131 to 220 to 240 1160E: 151 to 220 to 240	Max 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 (10ut (A) (1%-100% 2.8 (1%-1009 1.8 3.9 4.4 0.01%-100 2.8	Vout min (Vdc) 27 6 dimm 40 6 dimm 68 30 28 30 40 dimm 40	Vout Nom (Vdc) 30.6 45.0 45.0 37.8 32.4 45.0 45.0 45.0 45.0 45.0 45.0 45.0 45	Vout Max (Vdc) 34 50 85 42 36	No Load Voltage (Vdc) 44.2 60 100 50 46.8				





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

13 - LABELING

Figure 5

USA Headquarters

Tel: +1-805-517-1300 Fax: +1-805-517-1411 301 Science Drive, Suite 210 Moorpark, CA 93021, USA

CHINA Operations

Tel: +86-756-6266298 Fax: +86-756-6266299 No. 8 Pingdong Road 2

Zhuhai, Guangdong, China 519060

ERP - Energy Recovery Products (ERP Power, LLC) - reserves the right to make changes without further notice to any products herein. ERP makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ERP assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in ERP data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ERP does not convey any license under its patent rights nor the rights of others. ERP products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the ERP product could create a situation where personal injury or death may occur. Should Buyer purchase or use ERP products for any such unintended or unauthorized application, Buyer shall indemnify and hold ERP and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that ERP was negligent regarding the design or manufacture of the part. ERP is an Equal Opportunity/ Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ERP Power:

SLM90W-1.05-84-ZA