

Description

XLG-240 series is a 240W LED AC/DC driver featuring the constant power mode. XLG-240 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 6.66A. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for -40°C ~+90°C case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. Moreover the innovative environment-adaptive capability allows this series to reliably light on the LEDs for all kinds of application environments in almost any spots that may install LED luminaires in the world. XLG-240 is designed with the latest version of IEC61347/GB19510.1 and UL8750 international safety regulations. The output and dimming circuit are also completely in accordance with the new regulations with isolation to ensure the user and luminaire system safety durng installation.

Model Encoding

XLG - 240 I - L - I	
	Function options
	Rated output voltage(L/M/H/48V types)
	<pre>f I: for India version(by request with Input over voltage protection)</pre>
	🚺 🗋 : For standard version
	Rated wattage
	Series name

Туре	Function	Note
Blank	ank Io and Vo fixed.(For harsh environment)	
Α	lo adjustable via built-in potentiometer	In Stock
AB	AB lo adjustable via built-in potentiometer + 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	
ABV (48V only)	Vo adjustable via built-in potentiometer + 3 in 1 dimming function (Flicker free C.V. Dimming)	In Stock

Note: 1. India version needs MOQ for production, please consult MEANWELL for detail.

2. 48-V/48-BV types are available by modification version, please consult MEANWELL for detail.

MW Search: <u>https://www.meanwell.com/serviceGTIN.aspx</u>



SPECIFICATION

MODEL		XLG-240 -L-	XLG-240 -M-	XLG-240 -H-		
	PATED CUDDENT (D-f			4900mA		
	RATED CURRENT (Default)	700mA				
	RATED POWER CONSTANT CURRENT REGION Note.2	239.4W		239.6W 27 ~ 56V		
	FULL POWER CURRENT RANGE			4280~6660mA		
OUTPUT	OPEN CIRCUIT VOLTAGE (max.)			60V		
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via the I	, ,			
		350~1050mA	700~2100mA	2400~6660mA		
	CURRENT RIPPLE	5.0%(@Load≥50% rated voltage)	1			
	CURRENT TOLERANCE	±4%				
	SET UP TIME Note.6	500ms/230VAC, 1200ms/115VAC				
		100 ~ 305VAC 142 ~ 431VDC				
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" and "DRIVING METHODS OF LED MODULE"section)				
	FREQUENCY RANGE	47 ~ 63Hz				
		PF≧0.97 / 115VAC, PF≧0.95 / 230VAC, PF≧0.92 / 277VAC at full load				
	POWER FACTOR (Typ.)	(Please refer to "Power Factor Characteristic" section)				
		THD<10% (@ load ≥50% at 115VAC/230VAC ,@load ≥75% at 277VAC)				
	TOTAL HARMONIC DISTORTION	Please refer to "TOTAL HARMONIC D				
INPUT	EFFICIENCY (Typ.)	93%	92.5%	91%		
	AC CURRENT (Typ.)	2.7A / 115VAC 1.3A / 230VAC	1.1A/277VAC			
	INRUSH CURRENT(Typ.)		ed at 50% lpeak) at 230VAC; Per NEMA 410			
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	2 unit(circuit breaker of type B) / 4 units	s(circuit breaker of type C) at 230VAC			
		<0.75m/ / 077\/A.O				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	STANDBY	Standby power consumption <0.5	W for AB-Type(Dimming OFF)(for standard	d version)		
	POWER CONSUMPTION	,, ,				
	SHORT CIRCUIT	Hiccup mode or constant current limitin	g, recovers automatically after fault condition is	removed		
		380 ~ 450V	190~ 240V	61 ~ 85V		
PROTECTION	OVER VOLTAGE	Shut down output voltage, re-power on	to recovery			
RUIEUIIUN	INPUT OVER VOLTAGE Note.7	320 ~ 390VAC (Shut down output when the	e input exceeds protection voltage, recovers automa	tically after fault condition is removed)		
	INPUT OVER VOLTAGE Note./	Can survive input voltage stress of 440	Vac for 48 hours			
	OVER TEMPERATURE	Shut down output voltage, re-power o	on to recover			
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "Ol	JTPUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+90°C				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-conder	nsina			
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period 1	for 72min each along X Y 7 aves			
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384; GB19510.1, GB19510.14; EAC TP TC 004; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-2-13, IS15885(Part2/Sec13); NOM-058-SCFI-2017(except for Blank type); IP67 approved I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms	/ 500VDC / 25°C / 70% RH			
		Parameter	Standard	Test Level / Note		
		Conducted	BS EN/EN55015(CISPR15),GB/T17743	3		
			BS EN/EN55015(CISPR15),GB/T17743	i		
	EMC EMISSION	Radiated		,		
CAFETY 9	EMC EMISSION	Radiated Harmonic Current	BS EN/EN61000-3-2 , GB/T17625.1	Class C @load≥50%		
	EMC EMISSION		BS EN/EN61000-3-2 , GB/T17625.1 BS EN/EN61000-3-3			
EMC	EMC EMISSION	Harmonic Current		Class C @load≥50%		
SAFETY & EMC (Note 8)	EMC EMISSION	Harmonic Current Voltage Flicker		Class C @load≥50%		
EMC	EMC EMISSION	Harmonic Current Voltage Flicker BS EN/EN61547	BS EN/EN61000-3-3	Class C @load≥50% 		
EMC	EMC EMISSION	Harmonic Current Voltage Flicker BS EN/EN61547 Parameter	BS EN/EN61000-3-3 Standard	Class C @load≥50% Test Level / Note		
EMC		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact		
EMC	EMC EMISSION	Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3		
EMC		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3		
EMC		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option)		
EMC		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 2 Level 4		
EMC		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 2 Level 4		
EMC		Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods		
EMC (Note 8)	EMC IMMUNITY	Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods		
EMC (Note 8)	EMC IMMUNITY MTBF DIMENSION	Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2496.2K hrs min. Telcordia SR-332(BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods		
EMC (Note 8)	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially menti	Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2496.2K hrs min. Telcordia SR-332(219*63*35.5mm (L*W*H) 1Kg:16pcs / 16Kg / 0.8CUFT oned are measured at 230VAC input, rated curro	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11 Bellcore); 219.8K hrs min.	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods		
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EMC (Note 8)	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially mentit 2. Please refer to "DRIVING METHOC 3. Ripple & noise are measured at 201	Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2496.2K hrs min. Telcordia SR-332(219*63*35.5mm (L*W*H) 1Kg:16pcs / 16Kg / 0.8CUFT oned are measured at 230VAC input, rated curre S OF LED MODULE".	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11 Bellcore); 219.8K hrs min.	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods		
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EMC (Note 8)	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially mentit 2. Please refor to "DRIVING METHOD 3. Ripple & noise are measured at 201 4. Tolerance : includes set up tolerance 5. De-rating may be needed under lo in short time , it may causes PWM 6. Length of set up time is measured 7. Only for XLG-240 I series, and Iserie 8. The driver is considered as a comp	Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2496.2K hrs min. Telcordia SR-332(219*63*35.5mm (L*W*H) 1Kg:16pcs / 16Kg / 0.8CUFT oned are measured at 230VAC input, rated currus S OF LED MODULE . VHz of bandwidth by using a 12" twisted pair-wile, e, line regulation and load regulation. w input voltages. Please refer to "STATIC CHAF driver IC into protection status. at first cold start. Turning ON/OFF the driver mails is without UL/CSA certificate. noment that will be operated in combination with fi	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11 Bellcore) ; 219.8K hrs min. MIL-HDBK-; ent and 25°C of ambient temperature. re terminated with a 0.1uf & 47uf parallel capacitor. tACTERISTIC" sections for details.If continually operate via y lead to increase of the set up time nal equipment. Since EMC performance will be affected	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods 217F (25°C) with AC on/off		
EMC (Note 8)	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially mentit 2. Please refer to "DRIVING METHOD 3. Ripple & noise are measured at 201 4. Tolerance : includes set up toleranc 5. De-rating may be needed under foo in short time , it may causes PWW 6. Length of set up time is measured 7. Only for XLG-2401 series, and Iserie 8. The driver is considered as a comp complete installation, the final equip	Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2496.2K hrs min. Telcordia SR-332(219*63*35.5mm (L*W*H) 1Kg:16pcs / 16Kg / 0.8CUFT oned are measured at 230VAC input, rated currors S OF LED MODULE viHz of bandwidth by using a 12° twisted pair-wile, ine regulation and load regulation. wi input voltages. Please refer to "STATIC CHAP driver IC into protection status. at first cold start. Turning ON/OFF the driver ma is without UL/CSA certificate. onent that will be operated in combination with fi ment manufacturers must re-qualify EMC Direction status.	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11 Bellcore); 219.8K hrs min. MIL-HDBK- ent and 25°C of ambient temperature. re terminated with a 0.1uf & 47uf parallel capacitor. tACTERISTIC* sections for details.lf continually operate vill be affected villation again.	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods 217F (25°C) with AC on/off by the		
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SPECIFICATION

MODEL		XLG-240-48-ABV				
	RATED CURRENT	5A				
	RATED POWER(Max.)	240W				
	DC VOLTAGE	48V (adjustable 43.2~52.8V)				
	RIPPLE & NOISE(max.)	250mVp-p				
OUTPUT	VOLTAGE TOLERANCE	±2.0%				
	LINE REGULATION	$\pm 0.5\%$				
	LOAD REGULATION	±0.5%				
	DIMMING TOLERANCE	±4%				
	SET UP TIME Note.9	500ms/230VAC, 1200ms/115VAC				
	VOLTAGE RANGE	110 ~ 305VAC 156VDC ~ 431VDC				
	FREQUENCY RANGE	47~63Hz				
	POWER FACTOR (Typ.)	PF≥0.97 / 115VAC, PF≥0.95 / 230VAC, PF≥0.92 / 277VAC at full load				
	TOTAL HARMONIC DISTORTION	THD<10% @ load≥50% at 115VAC/230VAC, @Load>75% at 277VAC;				
INPUT	EFFICIENCY (Typ.)	91%				
	AC CURRENT (Typ.)	2.7A/115VAC 1.3A/230VAC 1.1A/277VAC				
	INRUSH CURRENT(Typ.)	COLD START 85A(twidth=500µs measured at 50% lpeak) at 230VAC; Per NEMA 410				
	MAX. NO. of PSUs on 16A	2 unit(circuit breaker of type B) / 4 units(circuit breaker of type C) at 230VAC				
	CIRCUIT BREAKER					
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	STANDBY POWER CONSUMPTION	Standby power consumption <0.5W for ABV/BV-T	ype(Dimming OFF)(for standard version)			
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recover	s automatically after fault condition is removed			
	OVER VOLTAGE	Shut down output voltage, re-power on to recovery	y			
ROTECTION	OVER TEMPERATURE Note.10					
		105~135%				
	OVER LOAD	Hiccup mode or Constant current limiting, recovers	s automatically after fault condition is removed			
	WORKING TEMP.					
		Tcase=-20 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=+90℃				
NVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-20 ~ +80°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min.	each along X, Y, Z axes			
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384; GB19510.1, GB19510.14; EAC TP TC 004; IP67 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:	1.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC				
		Parameter	Standard	Test Level / Note		
		Conducted	BS EN/EN55015(CISPR15) ,GB/T17743			
	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15),GB/T17743			
		Harmonic Current	BS EN/EN61000-3-2 , GB/T17625.1	Class C @load≥50%		
SAFETY &		Voltage Flicker	BS EN/EN61000-3-3			
		BS EN/EN61547				
EMC		Parameter	Standard	Test Level / Note		
	EMC IMMUNITY	ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-3	Level 2		
		EFT / Burst	BS EN/EN61000-4-4	Level 3		
		Surge	BS EN/EN61000-4-5	4KV/Line-Line 6KV/Line-Earth		
		Conducted	BS EN/EN61000-4-6	Level 2		
		Magnetic Field	BS EN/EN61000-4-8	Level 4		
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods		
	MTBF	2496.2K hrs min. Telcordia SR-332(Bellcore); 219.8K hrs min. MIL-HDBK-217F (25°C)				
OTHERS	DIMENSION	219*63*35.5mm (L*W*H)				
	PACKING	1Kg;16pcs / 16Kg / 0.8CUFT				
		ad are measured at 230VAC input, rated current and 25°C	of ambient temperature			
NOTE	 De-rating may be needed under low in The driver is considered as a component the final equipment manufacturers mu- 4. This series meets the typical life expect To fulfill requirements of the latest Erf Please refer to the warranty statement Tor ambient temperature derating of 3 For any application note and IP water https://www.meanwell.com/Upload/PD Products sourced from the Americas r When the secondary OTP fails, there Please refer to "DRIVING METHODS 48 type : RCM is on a voluntary basi 	put voltages. Please refer to "STATIC CHARACTERISTIC nt that will be operated in combination with final equipmes st re-qualify EMC Directive on the complete installation age tancy >50,000 hours of operation when Tcase, particular regulation for lighting fixture, this LED driver can only be on MEAN WELL's website at http://www.meanwell.com .5°C/1000m with fanless models and of 5°C/1000m with fanless model for a straight fanless models and of 5°C/1000m with fanless roof function installation caution, please refer our user m F/LED_EN.pdf gions may not have the ENEC/CCC/KC logo. Please col is also a primary OTP, which is protected by Shut down Hz of bandwidth by using a 12° twisted pair-wire terminat	C° sections for details. ent. Since EMC performance will be affected by the co gain. by (i) point (or TMP, per DLC), is 70°C or less. e used behind a switch without permanently connected fan models for operating altitude higher than 2000m(62 nanual before using. ntact your MEAN WELL sales for more information. output voltage, re-power on to recovery. ed with a 0.1uf & 47uf parallel capacitor. not suitable for residential installations.	to the mains.		



























240W Constant Power Mode LED Driver

