







#### Features

- Wide input range 100~305VAC(class I )
- Full power output at 75~100% constant power mode operation
- Metal case with IP67, suitable for outdoor application
- Surge protection with 6KV/4KV
- · 3 in 1 dimming (Dim-to-off and Isolation design)
- Protection Functions: OLP/SCP/OVP/OTP
- Lifetime>50,000 hours and 5 years warranty

Applications

- Bay lighting
- Stage lighting
- Floodlight lighting
- Fishing lighting
- Horticulture lighting
- Stadium lighting
- DMX power supply
- Type "HL" for use in class  ${\rm I}$  , Division 2
- GTIN CODE

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

#### Description

XLG-320 series is a 315W LED AC/DC driver featuring with constant power mode. XLG-320 operates from 120~305VAC and offers models with different rated current ranging between 1050mA and 7420mA. Thanks to the high efficiency up to 94.5% with the fanless design, the entire series is able to operate for  $40^{\circ}C \sim +85^{\circ}C$  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-320 series comply with the latest version of IEC61347/GB7000.1-2015 and UL8750 international safety regulations. The output and dimming circuit are also completely in accordance with the new regulations and isolation to ensure the safety of both user and luminaire system during installation.



Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed.(For harsh environment)	By request
A	IP67	Output constant power adjustable via built-in lo potentiometer	In Stock
AB	IP67	Output constant power adjustable via built-in lo potentiometer + 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock

Note: V model is constant voltage operation without the AB type



#### SPECIFICATION

MODEL		XLG-320-L-	XLG-320-M-	XLG-320-H-	XLG-320-V-				
	RATED CURRENT (Default)	1400mA	2800mA	5600mA	13A/24V				
	RATED POWER Note.10	315W	310.8W	312W	24V/312W, 12V/216W				
	CONSTANT CURRENT REGION	150~300V	74 ~ 148V	30 ~ 56V	NC				
	OUTPUT VOLTAGE ADJ. RANGE	NC	NC	NC	24V or 12V				
	FULL POWER CURRENT RANGE	1050~1400mA	2100~2800mA	5570~7420mA	13~18A(24V/13A,12V/18/				
	OPEN CIRCUIT VOLTAGE (max.)	340V	180V	60V	NC				
	CURRENT ADJ. RANGE	500~1400mA	1050~2800mA	2800~7420mA	NC NC				
DUTPUT	CURRENT RIPPLE	5.0% max. @rated current	5.0 max. @rated current	5.0% max. @rated					
DUIPUI	CURRENT TOLERANCE	±5%	±5%	±5%	NC				
	RIPPLE & NOISE(max.)	NC	NC	NC	240mV p-p				
	VOLTAGE TOLERANCE	NC	NC	NC	±3%				
	LINE REGULATION	NC	NC	NC	±0.5%				
	LOAD REGULATION	NC	NC	NC	±2%				
	SET UP TIME Note.9	500ms/230VAC, 1200ms/115VAC							
	RISE TIME,HOLD UP TIME (Typ.)	160ms,10ms/230VAC/115VAC(only for V-type)							
	VOLTAGE RANGE Note.2	100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)							
	FREQUENCY RANGE								
	FREQUENCI RANGE								
	POWER FACTOR (Typ.)	PF ≥ 0.98 / 115VAC, PF ≥ 0.95 / 230VAC, PF ≥ 0.92 / 277VAC at full load							
		(Please refer to "Power Factor Characteristic" section)							
	TOTAL HARMONIC DISTORTION	THD<10% @ load≥50% at 115VAC/230VAC, THD<15% @Load>75% at 277VAC;							
			Please refer to "TOTAL HARMONIC DISTORTION (THD)" section						
NPUT	EFFICIENCY (Typ.)	94.5%	93.5%	92.5%	93%				
	AC CURRENT (Typ.)	3A / 120VAC 1.6A / 230VAC	1.3A / 277VAC						
	INRUSH CURRENT(Typ.)	COLD START 45A(twidth=1200µs measured at 50% lpeak) at 230VAC; Per NEMA 410							
	MAX. NO. of PSUs on 16A	2 unit(circuit breaker of type B) / 4 u	units(circuit breaker of type C) at 2	30VAC					
		40.75 mA ( 077)/A C							
	LEAKAGE CURRENT STANDBY POWER	<0.75mA / 277VAC							
	CONSUMPTION Note.5	Standby power consumption <0.5W	V for AB-Type(Dimming OFF)						
	SHORT CIRCUIT	Hiccup mode or Constant current li	miting, recovers automatically afte	r fault condition is removed					
		350 ~ 380V	190 ~ 220V	63 ~ 78V	27 ~ 34V				
	OVER VOLTAGE	Shut down output voltage, re-powe		00 100					
ROTECTION									
	OVER TEMPERATURE Note.11	L/M/H-Type: Tcase>85 $^{\circ}$ C $\pm$ 5 $^{\circ}$ C,derate power automatically V-Type: Shut down output voltage, re-power on to recover							
		V-1ype: Shut down output voltage, re-power on to recover 108~135%(only for V-type)							
	OVER LOAD Note.10	108~135%(only for V-type) Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed							
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)							
	MAX. CASE TEMP.	Tcase=+85°C							
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +80 $^\circ\mathrm{C}$ , 10 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)							
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, per	iod for 72min. each along X, Y, Z a	ixes					
		UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384;							
	SAFETY STANDARDS	GB19510.1, GB19510.14;EAC TP TC 004; IP67; IS15885(Part2/Sec13)(except for blank type), KC61347-1,KC61347-2-13 approved							
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KV/	AC O/P-FG:1.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Of	nms / 500VDC / 25°C / 70% RH						
		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 & EMC		Voltage Flicker	BS EN/EN61000-						
		BS EN/EN61547							
		Parameter	Standard		Test Level / Note				
		ESD	BS EN/EN61000-4	4-2	Level 3, 8KV air ; Level 2, 4KV contact				
		Radiated	BS EN/EN61000-4		Level 2				
		EFT / Burst	BS EN/EN61000-4		Level 3				
	EMC IMMUNITY	Surge	BS EN/EN61000-4		4KV/Line-Line 6KV/Line-Earth				
		Conducted	BS EN/EN61000-4		Level 2				
		Magnetic Field	BS EN/EN61000-4		Level 4				
		-			>95% dip 0.5 periods, 30% dip 25 periods,				
		Voltage Dips and Interruptions	BS EN/EN61000-4	4-11	>95% interruptions 250 periods				
	MTBF	1476.4K hrs min. Telcordia SR-332	2(Bellcore); 168.1 K hrs min. M	IIL-HDBK-217F (25℃)					
OTHERS	DIMENSION	246*77*39.5mm (L*W*H)							
	PACKING	1.45Kq;9pcs/14Kg/0.76CUFT							
		I 43Kg, spts/14Kg/0.7000F1 ned are measured at 230VAC input, rated current and 25°C of ambient temperature.							
	2. De-rating may be needed under low in	nput voltages. Please refer to "STATIC CI	HARACTERISTIC" sections for details	i.					
	3. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation,								
	the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 4. This series meets the typical life expectancy >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is 70°C or less.								
	5. To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to the mains.								
		<ol> <li>Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</li> <li>The ambient temperature derating of 3.5<sup>°</sup>C/1000m with fanless models and of 5<sup>°</sup>C/1000m with fan models for operating altitude higher than 2000m(6500ft).</li> </ol>							
	6. Please refer to the warranty statement	8. For any application note and IP water proof function installation caution, please refer our user manual before using.							
	<ol> <li>6. Please refer to the warranty statemen</li> <li>7. The ambient temperature derating of</li> <li>8. For any application note and IP water</li> </ol>		https://www.meanwell.com/Upload/PDF/LED_EN.pdf 9. Products sourced from the Americas regions may not have the ENEC/CCC/KC logo. Please contact your MEAN WELL sales for more information.						
	<ol> <li>Please refer to the warranty statemen</li> <li>The ambient temperature derating of</li> <li>For any application note and IP water https://www.meanwell.com/Upload/PD</li> </ol>	DF/LED_EN.pdf	logo, Please contact your MEAN WE	LL sales for more information					
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	<ol> <li>Please refer to the warranty statemen 7. The ambient temperature derating of 8. For any application note and IP water https://www.meanwell.com/Upload/PL 9. Products sourced from the Americas I 10.The output voltage of the V Type defa 11. When the secondary OTP fails, there 12. When the current adjustment is morn 13. It may has an over-shoot status at ou 14. If you need the NOM (Mexico) certified 14. If you need the NOM (Mexico) certified 14. If you need the NOM (Mexico) certified 15. It may has an over-shoot status at our 14. If you need the NOM (Mexico) certified 15. It may has an over-shoot status at our 14. If you need the NOM (Mexico) certified 15. It may has an over-shoot status at our 14. If you need the NOM (Mexico) certified 15. It may has an over-shoot status at our 15. It may has an over-shoot status at our 16. It may has an over-shoot status at our 17. It may has an over-shoot status at our 17. It may has an over-shoot status at our 18. It may has an over shoot status at our 18. It may has an over shoot status at o</li></ol>	PF/LED_EN.pdf regions may not have the ENEC/CCC/KC ault is 24V, for 12V output, please adjust is also a primary OTP, which is protecte than 110% of the rated current, it will be utput current when AC On/Off operate wit cate, Please contact MEAN WELL sales	SVR by clockwise direction to the end, ad by Shut down output voltage, re-pow e enter the Protection state. It hower Vf and lower loading condition representative for details.	, otherwise the OLP point is not wer on to recovery for the H/M/L ns.					
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File Name:XLG-320-SPEC 2022-08-08







LIFE TIME



Tcase (  $^\circ\!\mathrm{C}$  )







