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21W Constant Current Mode LED Driver

XLG-20 series



- Wide input range 90~305VAC (Class I)
- Built-in active PFC function
- Class 2 power unit
- No load power consumption <0.5W
- · IP67 rating for indoor or outdoor installations
- 3 in 1 dimming function (Isolation design)
- Life time>50,000 hours and 5 years warranty

- Architectural lighting
- · Low bay lighting
- Floodlight lighting
- Industrial Lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

XLG-20 series is a AC/DC LED driver featuring the constant current mode output. XLG-20 operates from 90~305VAC. Thanks to the high efficiency up to 89%, The entire series is able to operate between -40° C $+80^{\circ}$ C wide case temperature range with air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications.XLG-20 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.XLG-20 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 with isolation to ensure the safety of both user and luminaire system during installation.

Model Encoding

XLG - 20 - 🗌 - 🗌	
	 Function mode option
	 Rated output voltage(L/M/H types)
	 Rated wattage
	 Series name

Туре	IP Level	Function	Note
Blank	IP67	lo fixed.	In Stock
В	IP67	lo fixed with 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock





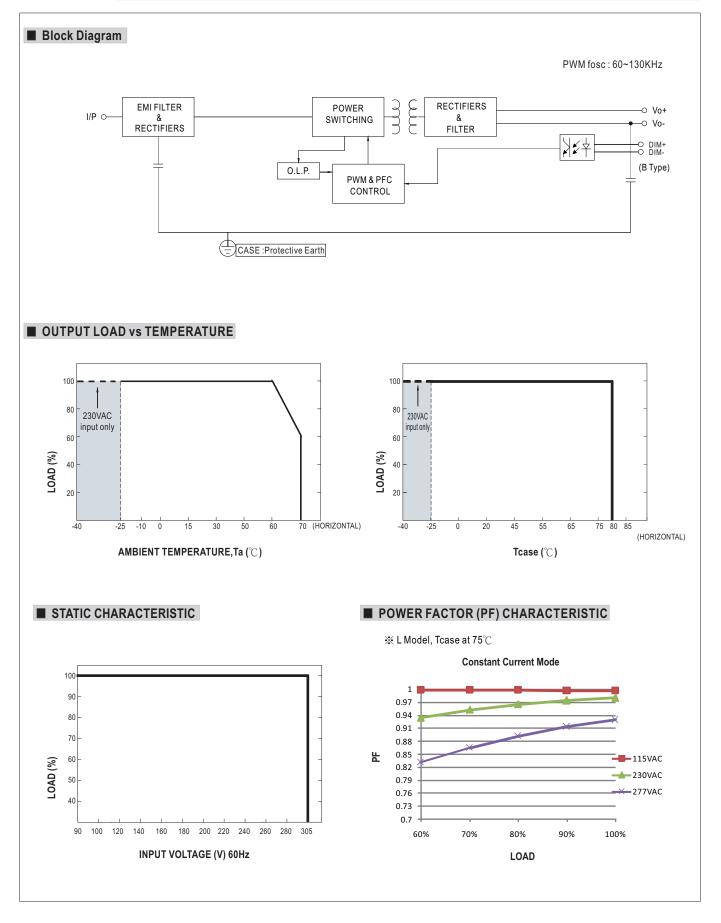
SPECIFICATION

MODEL		XLG-20-L-	XLG-20-M-	XLG-20-H-		
	RATED CURRENT (Default)	350mA	500mA	700mA		
l	CONSTANT CURRENT REGION	32.4 ~ 54V	25.2 ~ 42V	18 ~ 30V		
	RATED POWER	18.9W	21W	21W		
OUTPUT	OPEN CIRCUIT VOLTAGE (max.)	60V	50V	40V		
l	CURRENT TOLERANCE	±8.0%				
l	OUTPUT CURRENT RIPPLE Note.13	< 20%				
	SETUP, RISE TIME Note.2					
	LINE REGULATION	<pre><±3%</pre>				
	VOLTAGE RANGE Note.3	3 90 ~ 305VAC (Please refer to "STATIC CHARACTERISTIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	TREQUENTIANUE	47 * 0512 PF≧0.97/115VAC, PF≥0.95/230VAC, PF≥0.91/277VAC@full load				
	POWER FACTOR	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)				
		THD<20%(@load≧50%/115VC,230VAC; @load≧75%/277VAC)				
	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)				
INPUT	EFFICIENCY (Typ.)	89% 88.5% 88%				
l	AC CURRENT	0.3A/115VAC 0.2A/230VAC 0.2A/277VAC				
l	INRUSH CURRENT(Typ.)	COLD START 5A(twidth=350µs measured at 50% lpeak) at 230VAC; Per NEMA 410				
l	MAX. No. of PSUs on 16A	42 units (circuit breaker of type B) / 42 units (circuit breaker of type C) at 230VAC				
l	CIRCUIT BREAKER					
l	LEAKAGE CURRENT	<0.75mA/277VAC				
	NO LOAD POWER CONSUMPTION	No load power consumption <0.5W				
DOTEOTION		Hissup mode, recovers submetically ofter fault	ondition is removed			
KUTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault of				
	WORKING TEMP.	Tcase=-40 ~ +80°C (Please refer to " OUTPUT LC	OAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+80°C				
VIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP.	-40 ~ +80°C				
	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 AS/NZS IEC BS EN/EN61347-1, AS/NZS BS EN/EN61347-2-13 independent, BS EN/EN62384; IP67; GB19510.1, GB19510.14, J61347-1(H29), J61347-2-13(H29), EAC TP TC 004, IS 15885(Part 2/Sec13), KC61347-1, KC61347-2-13 approved				
				Sec13), KC01347-1,KC01347-2-13 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-F				
l	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC	/25°C/70% RH	1		
l		Parameter Stand	dard	Test Level/Note		
l		Conducted BS EI	N/EN55015(CISPR15), GB/T 17743, J55015(H29)			
l	EMC EMISSION	Radiated BS EI	N/EN55015(CISPR15), GB/T 17743, J55015(H29)			
		Harmonic Current BS El	N/EN61000-3-2,GB17625.1	Class C @load≥50%		
AFETY &		Voltage Flicker BS Et	N/EN61000-3-3			
EMC		BS EN/EN61547				
l		Parameter Stand	dard	Test Level/Note		
l			N/EN61000-4-2			
l				Level 3, 8KV air ; Level 2, 4KV contact		
l			N/EN61000-4-3	Level 3		
	EMC IMMUNITY	L L L L L L L L L L L L L L L L L L L	N/EN61000-4-4			
1				Level 3		
		Surge BS EN	N/EN61000-4-5	2KV/Line-Line 4KV/Line-Earth		
		Surge BS EN	N/EN61000-4-5 N/EN61000-4-6			
		Surge BS En Conducted BS En		2KV/Line-Line 4KV/Line-Earth		
		Surge BS Ef Conducted BS Ef Magnetic Field BS Ef	N/EN61000-4-6	2KV/Line-Line 4KV/Line-Earth Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,		
	MTBF	Surge BS EN Conducted BS EN Magnetic Field BS EN Voltage Dips and Interruptions BS EN	N/EN61000-4-6 N/EN61000-4-8	2KV/Line-Line 4KV/Line-Earth Level 3 Level 4		
OTHERS		Surge BS Et Conducted BS Et Magnetic Field BS Et Voltage Dips and Interruptions BS Et	N/EN61000-4-6 N/EN61000-4-8 N/EN61000-4-11	2KV/Line-Line 4KV/Line-Earth Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,		
OTHERS	MTBF	Surge BS EN Conducted BS EN Magnetic Field BS EN Voltage Dips and Interruptions BS EN 5721.2K hrs min. Telcordia SR-332 (Bellcore) 95*63*30mm (L*W*H)	N/EN61000-4-6 N/EN61000-4-8 N/EN61000-4-11	2KV/Line-Line 4KV/Line-Earth Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,		
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21W Constant Current Mode LED Driver

XLG-20 series





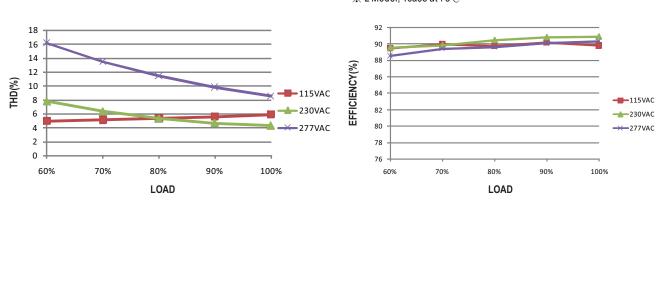
XLG-20 series

TOTAL HARMONIC DISTORTION (THD)

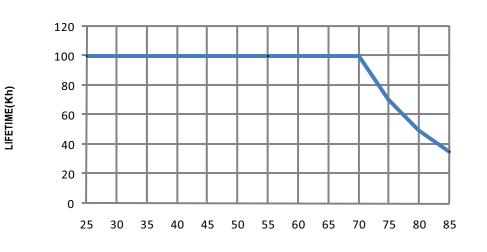
※ L Model, Tcase at 75℃

EFFICIENCY vs LOAD

XLG-20 series possess superior working efficiency that up to 89% can be reached in field applications. % L Model, Tcase at 75 $^\circ\!{\rm C}$





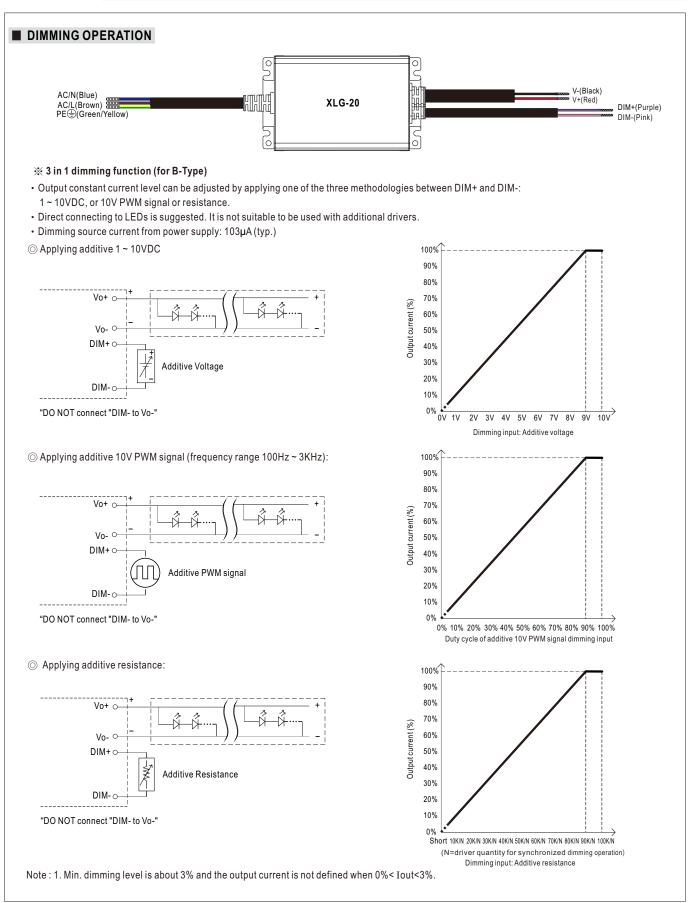


Tcase (°C)

File Name:XLG-20-SPEC 2024-03-12

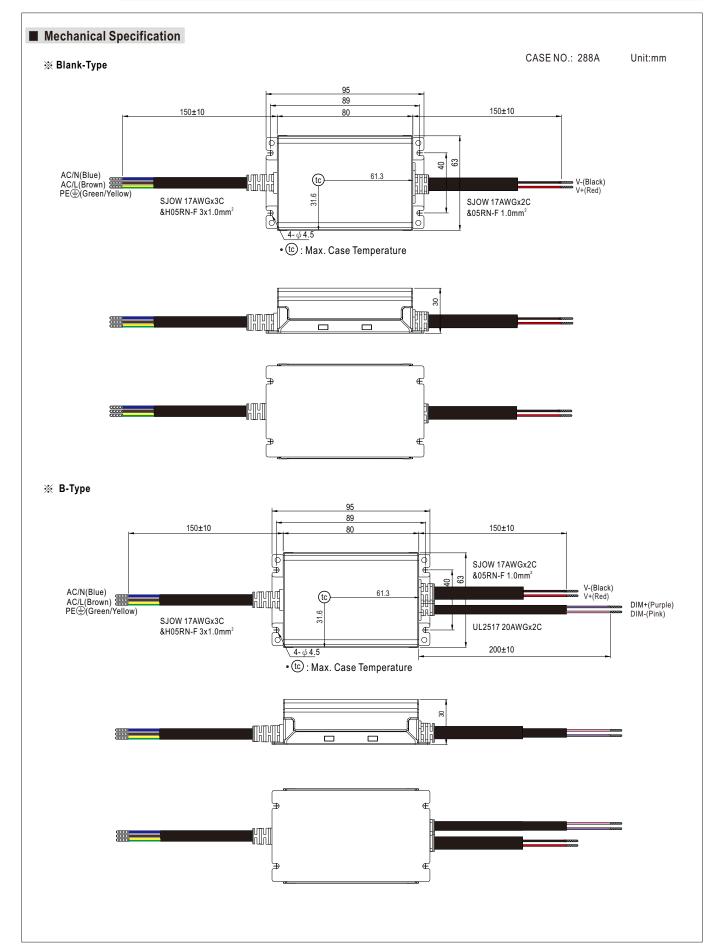


XLG-20 series

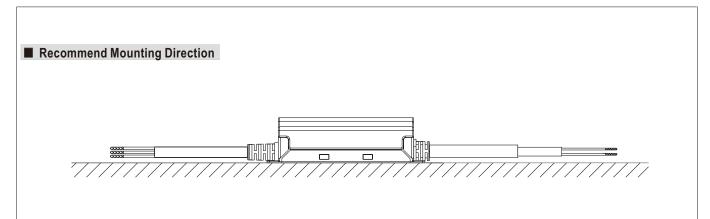




XLG-20 series







■ INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/manual.html