



























■ 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
- Compliance to EN60335-1 household application
- · Lifetime>50,000 hours and 5 years warranty

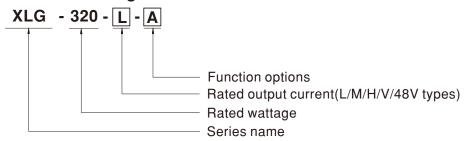
Applications

- Bay lighting
- Stage lighting
- · Floodlight lighting
- · Horticulture lighting
- Stadium lighting
- LED strip lighting (ABV type)
- Agricultural lighting (ABV type)
- DMX power supply
- Type "HL" for use in class I, Division 2
- · Household devices
- · Retail and refrigerated display

■ 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 $40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ 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/GB19510.1 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.

■ Model Encoding



Type	IP Level	Function	Note
Blank	IP67	lo and Vo fixed.(For harsh environment)	By request
Α	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
ABV (48V only)	IP67	Vo adjustable via built-in potentiometer + 3 in 1 dimming function (Flicker free C.V. Dimming)	In Stock

Note: 1.V model is constant voltage operation without the AB type



SPECIFICATION

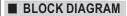
		XLG-320-L-	XLG-320-M-	XLG-320-H-	XLG-320-V-			
	RATED CURRENT (Default)	1400mA	2800mA	5600mA	13A/24V			
OUTPUT	RATED POWER Note.10	315W	310.8W	312W	24V/312W, 12V/216W			
	CONSTANT CURRENT REGION	150~300V	74 ~ 148V	30 ~ 56V	NC			
	OUTPUT VOLTAGE ADJ. RANGE	NC	NC	NC	24V or 12V			
	FULL POWER CURRENT RANGE	1050~1400mA	2100~2800mA	5570~7420mA	13~18A(24V/13A,12V/18			
	OPEN CIRCUIT VOLTAGE (max.)	340V	180V	60V	NC NO			
	CURRENT ADJ. RANGE	500~1400mA	1050~2800mA	2800~7420mA	NC NC			
	CURRENT RIPPLE	5.0% max. @rated current	5.0 max. @rated current	5.0% max. @rated				
	CURRENT TOLERANCE	±5%	±5%	±5%	NC			
	RIPPLE & NOISE(max.)	NC	NC NC	NC NC	240mV p-p			
	VOLTAGE TOLERANCE	NC	NC	NC NC	±3%			
	LINE REGULATION	NC	NC NO	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						
	FREQUENCY RANGE	47 ~ 63Hz						
	PREQUENCT RANGE	$47 \sim 63$ Hz PF $\geq 0.98 / 115$ VAC, PF $\geq 0.95 / 230$ VAC, PF $\geq 0.92 / 277$ VAC at full load						
	POWER FACTOR (Typ.)	PF \(\subseteq 0.95 \) TSVAC, PF \(\subseteq 0.95 \) 230 VAC, PF \(\subseteq 0.92 \) 277 VAC at full load (Please refer to "Power Factor Characteristic" section)						
		(Please refer to Power Pactor Characteristic Section) THD<10% @ load ≥50% at 115VAC/230VAC, THD<15%@Load>75% at 277VAC;						
	TOTAL HARMONIC DISTORTION	THD<10% @ load ≥ 50% at 115VAC/230VAC, THD<15%@Load>75% at 277VAC; Please refer to "TOTAL HARMONIC DISTORTION (THD)" section						
INDUT	EFFICIENCY (Typ.)							
INPUT	AC CURRENT (Typ.)			92.5%	33 /0			
		3A / 120VAC 1.6A / 230VAC	1.3A / 277VAC easured at 50% lpeak) at 230VAC; Pe	or NEMA 410				
<u> </u>	INRUSH CURRENT(Typ.)	COLD START 43A(IWIGIN=1200µS MI	casureu at 50 % ipeak) at 230VAC; Pe	DI INEIVIM 4 IU				
	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 Note.5	Standby power consumption <0.5W	for AB-Type(Dimming OFF)					
	SHORT CIRCUIT	Hiccup mode or Constant current lin	miting, recovers automatically after f	fault condition is removed				
	GHORT GIRGOTT	350 ~ 380V	190 ~ 220V	63 ~ 78V	27 ~ 34V			
	OVER VOLTAGE	Shut down output voltage, re-power		05 ~ 70 V	21 - 34 V			
ROTECTION								
	OVER TEMPERATURE Note.11	L/M/H-Type: Tcase>85°C ±5°C, derate power automatically						
		v-1ype: Shut down output voltage, re-power on to recover						
	OVER LOAD Note.10	108-135%(only for V-type) Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed						
	W00//W0 =====	· ·						
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+85℃						
IVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
VIICONIILI	STORAGE TEMP., HUMIDITY	$-40 \sim +80^{\circ}\mathrm{C}$, $10 \sim 95\%$ 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						
	-	III 8750(type"HI ") CSA C22 2 No.	250 13-12: ENEC BS EN/EN61347-	.1 RS EN/EN61347-2-13 inc	dependent, BS EN/EN62384, EN/EN60335-1			
	SAFETY STANDARDS							
			compliant to EN 60335-2-89 Annex BB, EN 60335-2-24 Annex CC;GB19510.1, GB19510.14;EAC TP TC 004; IP67; IS15885(Part2/Sec13)(except for blank type), KC61347-1,KC61347-2-13 approved					
		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC						
	WITHSTAND VOLTAGE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Oh	ms / 500VDC / 25°C / 70% RH					
		I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter	nms / 500VDC / 25°C / 70% RH Standard		Test Level / Note			
		· · ·	Standard	SISPR15), GB/T 17743	Test Level / Note			
		Parameter	Standard BS EN/EN55015(C	SISPR15),GB/T 17743				
	ISOLATION RESISTANCE	Parameter Conducted	Standard BS EN/EN55015(C	ISPR15),GB/T 17743				
	ISOLATION RESISTANCE	Parameter Conducted Radiated Harmonic Current	Standard BS EN/EN55015(C BS EN/EN55015(C	SISPR15),GB/T 17743 -2, GB17625.1				
AFETY &	ISOLATION RESISTANCE	Parameter Conducted Radiated Harmonic Current Voltage Flicker	Standard BS EN/EN55015(C BS EN/EN55015(C BS EN/EN61000-3-	SISPR15),GB/T 17743 -2, GB17625.1	 Class C @load≥50%			
	ISOLATION RESISTANCE	Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547	Standard BS EN/EN55015(C BS EN/EN55015(C BS EN/EN61000-3-	SISPR15),GB/T 17743 -2, GB17625.1	 Class C @load≥50%			
	ISOLATION RESISTANCE	Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter	Standard	EISPR15),GB/T 17743 -2 , GB17625.1 -3	Class C @load≥50%			
	ISOLATION RESISTANCE	Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD	Standard	EISPR15),GB/T 17743 -2 , GB17625.1 -3	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact			
	ISOLATION RESISTANCE	Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated	Standard	EISPR15),GB/T 17743 -2 , GB17625.1 -3 2	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2			
	EMC EMISSION	Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst	Standard	EISPR15),GB/T 17743 -2 , GB17625.1 -3 2 3 4	Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3			
	ISOLATION RESISTANCE	Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge	Standard	EISPR15),GB/T 17743 -2 , GB17625.1 -3 2 3 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			
	EMC EMISSION	Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted	Standard	EISPR15),GB/T 17743 -2 , GB17625.1 -3 2 3 4 5 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 Level 2			
	EMC EMISSION	Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field	Standard	EISPR15),GB/T 17743 -2 , GB17625.1 -3 2 3 4 5 6 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 Level 2 Level 4			
	EMC EMISSION	Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted	Standard	EISPR15),GB/T 17743 -2 , GB17625.1 -3 2 3 4 5 6 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 Level 2			
	EMC EMISSION EMC IMMUNITY	Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	Standard	EISPR15),GB/T 17743 -2 , GB17625.1 -3 2 3 4 5 6 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 Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,			
МС	EMC EMISSION EMC IMMUNITY	Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 1476.4K hrs min. Telcordia SR-332	Standard	EISPR15),GB/T 17743 -2 , GB17625.1 -3 2 3 4 5 6 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 Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,			
мс	EMC EMISSION EMC IMMUNITY MTBF DIMENSION	Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 1476.4K hrs min. Telcordia SR-332 246*77*39.5mm (L*W*H)	Standard	EISPR15),GB/T 17743 -2 , GB17625.1 -3 2 3 4 5 6 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 Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,			
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312W Constant Voltage LED Driver

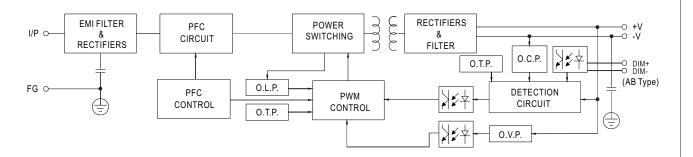
SPECIFICATION

RATED POWER (Max.) DC VOLTAGE RIPPLE & NOISE(max.) //OLTAGE TOLERANCE LINE REGULATION OLD REGULATION DIMMING TOLERANCE SET UP TIME Note.9 RISE TIME,HOLD UP TIME (Typ.) //OLTAGE RANGE Note.2 FREQUENCY RANGE POWER FACTOR (Typ.) FOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT (Typ.) MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION SHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE Note.10 DVER LOAD NORKING TEMP. MAX. CASE TEMP. NORKING TEMP. MAX. CASE TEMP. NORKING TEMP. MAX. CASE TEMP. NORKING TEMP.	93.5% 3A / 120VAC 1.6A / 230VAC COLD START 45A(twidth=1200µs measu 2 unit(circuit breaker of type B) / 4 units(<0.75mA / 277VAC Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 1 Shut down output voltage, re-power on 1 105~135% Hiccup mode or Constant current limitin	STIC") C, PF≥0.92 / 277VAC at full load 30VAC, THD<15%@Load>75% at 277VAC; .3A / 277VAC red at 50% lpeak) at 230VAC; Per NEMA 410 circuit breaker of type C) at 230VAC ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed o recovery						
DC VOLTAGE RIPPLE & NOISE(max.) /OLTAGE TOLERANCE LINE REGULATION LOAD REGULATION DIMMING TOLERANCE SET UP TIME Note.9 RISE TIME,HOLD UP TIME (Typ.) /OLTAGE RANGE Note.2 FREQUENCY RANGE POWER FACTOR (Typ.) IOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION BHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE Note.10 NORKING TEMP. MAX. CASE TEMP. NORKING TEMP. MAX. CASE TEMP. NORKING HUMIDITY	$48V(Adjustable 43.2~52.8V)$ $250mVp-p$ $\pm 2.0\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 4\%$ $500ms/230VAC, 1200ms/115VAC$ $160ms,10ms/230VAC/115VAC$ $100~305VAC$ $142VDC~431VDC$ $(Please refer to "STATIC CHARACTERI 47~63Hz$ $PF \geq 0.98 / 115VAC, PF \geq 0.95 / 230VA$ $THD~10\% @ load \geq 50\% at 115VAC/2$ 93.5% $3A / 120VAC$ $1.6A / 230VAC$ $COLD START 45A(twidth=1200 \mus measus 2 unit (circuit breaker of type B) / 4 units (<0.75mA / 277VAC)$ $Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54~60V$ $Shut down output voltage, re-power on 105~135\%$ $Hiccup mode or Constant current limitin Tcase=-20~+85\% (Please refer to "OU Tcase=+85\% (Please refer to "OU Tcas$	STIC") C, PF≥0.92 / 277VAC at full load 30VAC, THD<15%@Load>75% at 277VAC; .3A / 277VAC red at 50% lpeak) at 230VAC; Per NEMA 410 circuit breaker of type C) at 230VAC ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed or recovery o, recovers automatically after fault condition is removed						
RIPPLE & NOISE(max.) //OLTAGE TOLERANCE LINE REGULATION LOAD REGULATION DIMMING TOLERANCE SET UP TIME Note.9 RISE TIME,HOLD UP TIME (Typ.) //OLTAGE RANGE Note.2 FREQUENCY RANGE POWER FACTOR (Typ.) IOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION BHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE Note.10 NORKING TEMP. MAX. CASE TEMP. NORKING TEMP. MAX. CASE TEMP. NORKING HUMIDITY	250mVp-p ±2.0% ±0.5% ±0.5% ±4% 500ms/230VAC, 1200ms/115VAC 160ms,10ms/230VAC/115VAC 100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTER! 47 ~ 63Hz PF≥0.98 / 115VAC, PF≥0.95 / 230VA THD< 10% @ load≥50% at 115VAC/2 93.5% 3A / 120VAC 1.6A / 230VAC COLD START 45A(twidth=1200µs measu 2 unit(circuit breaker of type B) / 4 units(<0.75mA / 277VAC Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 1 05~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C)	STIC") C, PF≥0.92 / 277VAC at full load 30VAC, THD<15%@Load>75% at 277VAC; .3A / 277VAC red at 50% lpeak) at 230VAC; Per NEMA 410 circuit breaker of type C) at 230VAC ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed or recovery o, recovers automatically after fault condition is removed						
VOLTAGE TOLERANCE LINE REGULATION LOAD REGULATION DIMMING TOLERANCE SET UP TIME Note.9 RISE TIME,HOLD UP TIME (Typ.) VOLTAGE RANGE Note.2 FREQUENCY RANGE POWER FACTOR (Typ.) FOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) ACC CURRENT (Typ.) MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION BHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE Note.10 DVER LOAD NORKING TEMP. MAX. CASE TEMP. NORKING TEMP. MAX. CASE TEMP. NORKING HUMIDITY	$\pm 2.0\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 4\%$ 500ms/230VAC, 1200ms/115VAC 160ms,10ms/230VAC/115VAC 100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTER! 47 ~ 63Hz PF ≥ 0.98 / 115VAC, PF ≥ 0.95 / 230VA THD< 10% @ load $\ge 50\%$ at 115VAC/2 93.5% 3A / 120VAC 1.6A / 230VAC COLD START 45A(twidth=1200 μs measus 2 unit(circuit breaker of type B) / 4 units(< 0.75 mA / 277VAC Standby power consumption < 0.5 W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 105~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C)	STIC") C, PF≥0.92 / 277VAC at full load 30VAC, THD<15%@Load>75% at 277VAC; .3A / 277VAC red at 50% lpeak) at 230VAC; Per NEMA 410 circuit breaker of type C) at 230VAC ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed or recovery o, recovers automatically after fault condition is removed						
LINE REGULATION LOAD REGULATION DIMMING TOLERANCE SET UP TIME Note.9 RISE TIME,HOLD UP TIME (Typ.) VOLTAGE RANGE POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT (Typ.) MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION BHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE NORKING TEMP. MAX. CASE TEMP. NORKING TEMP. NORKING TEMP. NORKING TEMP. NORKING HUMIDITY	\pm 0.5% \pm 0.5% \pm 4% 500ms/230VAC, 1200ms/115VAC 160ms,10ms/230VAC/115VAC 100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERI 47 ~ 63Hz PF \geq 0.98 / 115VAC, PF \geq 0.95 / 230VA THD< 10% @ load \geq 50% at 115VAC/2 93.5% COLD START 45A(twidth=1200 μ s measu 2 unit(circuit breaker of type B) / 4 units(<0.75mA / 277VAC Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 105~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C)	STIC") C, PF≥0.92 / 277VAC at full load 30VAC, THD<15%@Load>75% at 277VAC; .3A / 277VAC red at 50% lpeak) at 230VAC; Per NEMA 410 circuit breaker of type C) at 230VAC ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed or recovery o, recovers automatically after fault condition is removed						
LOAD REGULATION DIMMING TOLERANCE SET UP TIME Note.9 RISE TIME,HOLD UP TIME (Typ.) VOLTAGE RANGE Note.2 FREQUENCY RANGE POWER FACTOR (Typ.) FOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT(Typ.) MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION SHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE Note.10 NORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	$\begin{array}{l} \pm 0.5\% \\ \pm 4\% \\ 500ms/230VAC, 1200ms/115VAC \\ 160ms, 10ms/230VAC/115VAC \\ 100 \sim 305VAC $	STIC") C, PF≥0.92 / 277VAC at full load 30VAC, THD<15%@Load>75% at 277VAC; .3A / 277VAC red at 50% lpeak) at 230VAC; Per NEMA 410 circuit breaker of type C) at 230VAC ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed or recovery o, recovers automatically after fault condition is removed						
DIMMING TOLERANCE SET UP TIME Note.9 RISE TIME,HOLD UP TIME (Typ.) VOLTAGE RANGE Note.2 FREQUENCY RANGE POWER FACTOR (Typ.) FOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT (Typ.) MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION SHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE Note.10 NORKING TEMP. MAX. CASE TEMP. WORKING TEMP.	±4% 500ms/230VAC, 1200ms/115VAC 160ms,10ms/230VAC/115VAC 100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTER! 47 ~ 63Hz PF≥0.98 / 115VAC, PF≥0.95 / 230VA THD< 10% @ load≥50% at 115VAC/2 93.5% 3A / 120VAC 1.6A / 230VAC COLD START 45A(twidth=1200μs measu 2 unit(circuit breaker of type B) / 4 units(<0.75mA / 277VAC Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 1 05~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C)	STIC") C, PF≥0.92 / 277VAC at full load 30VAC, THD<15%@Load>75% at 277VAC; .3A / 277VAC red at 50% lpeak) at 230VAC; Per NEMA 410 circuit breaker of type C) at 230VAC ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed or recovery o, recovers automatically after fault condition is removed						
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RISE TIME,HOLD UP TIME (Typ.) VOLTAGE RANGE POWER FACTOR (Typ.) FOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT (Typ.) MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION SHORT CIRCUIT DVER VOLTAGE DVER LOAD NORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	160ms,10ms/230VAC/115VAC 100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERI 47 ~ 63Hz PF≥0.98 / 115VAC, PF≥0.95 / 230VA THD< 10% @ load ≥50% at 115VAC/2 93.5% 3A / 120VAC 1.6A / 230VAC COLD START 45A(twidth=1200μs measu 2 unit(circuit breaker of type B) / 4 units(<0.75mA / 277VAC Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 105~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C)	STIC") C, PF≥0.92 / 277VAC at full load 30VAC, THD<15%@Load>75% at 277VAC; .3A / 277VAC red at 50% lpeak) at 230VAC; Per NEMA 410 circuit breaker of type C) at 230VAC ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed or recovery o, recovers automatically after fault condition is removed						
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TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) MAX. NO. of PSUS on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION SHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE NOTE.10 NORKING TEMP. MAX. CASE TEMP. NORKING HUMIDITY	THD< 10% @ load ≥ 50% at 115VAC/2 93.5% 3A / 120VAC 1.6A / 230VAC COLD START 45A(twidth=1200µs measu 2 unit(circuit breaker of type B) / 4 units(<0.75mA / 277VAC Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 1 05~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C	30VAC, THD<15%@Load>75% at 277VAC; .3A / 277VAC red at 50% Ipeak) at 230VAC; Per NEMA 410 circuit breaker of type C) at 230VAC ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed or recovery or recovery g, recovers automatically after fault condition is removed						
EFFICIENCY (Typ.) AC CURRENT (Typ.) NRUSH CURRENT (Typ.) MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION SHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE Note.10 DVER LOAD WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	93.5% 3A / 120VAC 1.6A / 230VAC COLD START 45A(twidth=1200µs measu 2 unit(circuit breaker of type B) / 4 units(<0.75mA / 277VAC Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 1 05~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C	.3A / 277VAC red at 50% Ipeak) at 230VAC; Per NEMA 410 circuit breaker of type C) at 230VAC ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed o recovery o recovery g, recovers automatically after fault condition is removed						
AC CURRENT (Typ.) NRUSH CURRENT (Typ.) MAX. NO. of PSUS on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION SHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE NOTE: 10 NORKING TEMP. MAX. CASE TEMP. NORKING HUMIDITY	3A / 120VAC 1.6A / 230VAC COLD START 45A(twidth=1200µs measu 2 unit(circuit breaker of type B) / 4 units(<0.75mA / 277VAC Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 1 Shut down output voltage, re-power on 1 105~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C	red at 50% Ipeak) at 230VAC; Per NEMA 410 circuit breaker of type C) at 230VAC ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed or recovery or recovery g, recovers automatically after fault condition is removed						
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NRUSH CURRENT(Typ.) MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION SHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE Note.10 DVER LOAD WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	COLD START 45A(twidth=1200µs measured 2 unit(circuit breaker of type B) / 4 units(<0.75mA / 277VAC Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 105~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C)	red at 50% Ipeak) at 230VAC; Per NEMA 410 circuit breaker of type C) at 230VAC ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed or recovery or recovery g, recovers automatically after fault condition is removed						
MAX. NO. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION SHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE Note.10 DVER LOAD WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	2 unit(circuit breaker of type B) / 4 units(<0.75mA / 277VAC Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 1 105~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C	ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed o recovery o recovery						
CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION SHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE Note.10 DVER LOAD NORKING TEMP. MAX. CASE TEMP. NORKING HUMIDITY	<0.75mA / 277VAC Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 1 105~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C)	ABV/BV-Type(Dimming OFF) g, recovers automatically after fault condition is removed o recovery o recovery g, recovers automatically after fault condition is removed						
LEAKAGE CURRENT STANDBY POWER CONSUMPTION SHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE Note.10 DVER LOAD WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 105~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C)	g, recovers automatically after fault condition is removed o recovery o recovery g, recovers automatically after fault condition is removed						
STANDBY POWER CONSUMPTION SHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE Note.10 DVER LOAD WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	Standby power consumption <0.5W for Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 105~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C)	g, recovers automatically after fault condition is removed o recovery o recovery g, recovers automatically after fault condition is removed						
SHORT CIRCUIT DVER VOLTAGE DVER TEMPERATURE Note.10 DVER LOAD NORKING TEMP. MAX. CASE TEMP. NORKING HUMIDITY	Hiccup mode or Constant current limitin 54 ~ 60V Shut down output voltage, re-power on 1 Shut down output voltage, re-power on 1 105~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C)	g, recovers automatically after fault condition is removed o recovery o recovery g, recovers automatically after fault condition is removed						
OVER VOLTAGE OVER TEMPERATURE Note.10 OVER LOAD NORKING TEMP. MAX. CASE TEMP. NORKING HUMIDITY	54 ~ 60V Shut down output voltage, re-power on 1 Shut down output voltage, re-power on 1 105~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C	o recovery g, recovers automatically after fault condition is removed						
DVER TEMPERATURE Note.10 DVER LOAD NORKING TEMP. MAX. CASE TEMP. NORKING HUMIDITY	Shut down output voltage, re-power on the Shut down output voltage, re-power on the 105~135% Hiccup mode or Constant current limiting Tcase=-20 ~+85°C (Please refer to "OUTcase=+85°C)	o recovery g, recovers automatically after fault condition is removed						
OVER TEMPERATURE Note.10 OVER LOAD WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	Shut down output voltage, re-power on 1 105~135% Hiccup mode or Constant current limitin Tcase=-20 ~+85°C (Please refer to "OU Tcase=+85°C	o recovery g, recovers automatically after fault condition is removed						
OVER LOAD NORKING TEMP. MAX. CASE TEMP. NORKING HUMIDITY	105~135% Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C	g, recovers automatically after fault condition is removed						
OVER LOAD NORKING TEMP. MAX. CASE TEMP. NORKING HUMIDITY	Hiccup mode or Constant current limitin Tcase=-20 ~ +85°C (Please refer to "OU Tcase=+85°C	<u>'</u>						
WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY	Tcase=-20 ~ +85 $^{\circ}$ C (Please refer to "OU Tcase=+85 $^{\circ}$ C	<u>'</u>						
MAX. CASE TEMP. NORKING HUMIDITY	Tcase=+85°C	TPUT LOAD vs TEMPERATURE" section)						
WORKING HUMIDITY								
	20 ~ 95% RH non-condensing		,					
JIONAGE IEMIL, HOMIDII	·							
·	·	ing .						
	, ,							
/IBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384;							
SAI ETT STANDARDS	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							
SOLATION 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/T 17743						
EMC EMISSION	Radiated	BS EN/EN55015(CISPR15),GB/T 17743						
1	Harmonic Current	BS EN/EN61000-3-2 . GB17625.1	Class C @load≥50%					
_								
		DO 211/21101000 0 0						
-		Standard	Test Level / Note					
			Level 3, 8KV air ; Level 2, 4KV contact					
<u> </u>								
			Level 2					
EMC IMMUNITY -			4KV/Line-Line 6KV/Line-Earth					
<u> </u>								
F			Level 2					
	magnetic Field	B3 EIN/EIN01UUU-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					
MIDE	1476 4K has miss Talasani's OD 00000 "	2070) : 169 1 K hrs mi MIL LIDDY 0475 (05°C)	00 % intorraptions 200 perious					
		соте), тов. г к птs min. MiL-HDBK-21/F (25 С)						
	246*77*39.5mm (L*W*H)							
PACKING	1.45Kg;9pcs/14Kg/0.76CUFT							
2. De-rating may be needed under lov 3. The driver is considered as a comp the final equipment manufacturers i (as available on https://www.meanv 4. This series meets the typical life ex 5. To fulfill requirements of the latest I 6. Please refer to the warranty statem 7. The ambient temperature derating 8. For any application note and IP wat https://www.meanwell.com/Upload/ 9. Products sourced from the America 10. When the secondary OTP fails, th 11. Ripple & noise are measured at 20	w input voltages. Please refer to "STATI vonent that will be operated in combinati must re-qualify EMC Directive on the cowell.com//Upload/PDF/EMI_statement_spectancy >50,000 hours of operation will be provided by the control of the control of the control of 3.5°C/1000m with fanless models and ter proof function installation caution, ple/PDF/LED_EN.pdf as regions may not have the ENEC/CCC ere is also a primary OTP, which is protoMHz of bandwidth by using a 12" twiste	C CHARACTERISTIC" sections for details. on with final equipment. Since EMC performance will be a mplete installation again. an.pdf) nen Tcase, particularly (a) point (or TMP, per DLC), is 75% D driver can only be used behind a switch without perma www.meanwell.com of 5°C/1000m with fan models for operating altitude high pase refer our user manual before using. I/KC logo. Please contact your MEAN WELL sales for modected by Shut down output voltage, re-power on to recove	© or less. Inently connected to the mains. er than 2000m(6500ft). re information.					
TEM WS S EM S 1.1.2.3.3.4.1.2.1.3.4.1.2.1.2.1.3.4.1.2.1.3.4.1.2.1.2.1.3.4.1.2.1.2.1.3.4.1.2.1.2.1.3.4.1.2.1.2.1.2.1.2.1.2.1.2.1.2.1.2.1.2.1	EMP. COEFFICIENT BRATION AFETY STANDARDS ITHSTAND VOLTAGE OLATION RESISTANCE ACEMISSION	### Description ### De	### ### #############################					



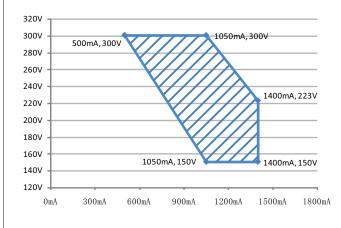


PFC fosc : 45KHz PWM fosc : 100KHz

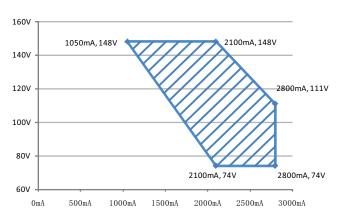


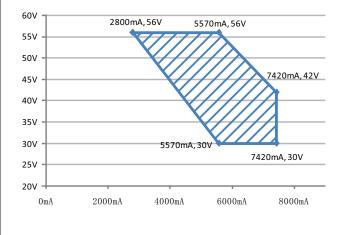
■ DRIVING METHODS OF LED MODULE

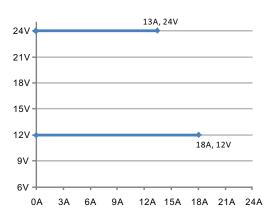
XLG-320-L



XLG-320-M



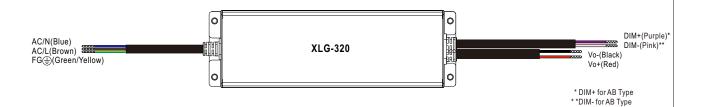




🔆 V type output voltage adjustable via biult-in potentiometer

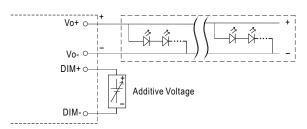


■ DIMMING OPERATION



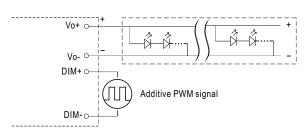
※ 3 in 1 dimming function (for AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100 μ A (typ.)



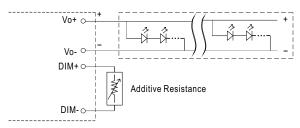
"DO NOT connect "DIM- to Vo-"

Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

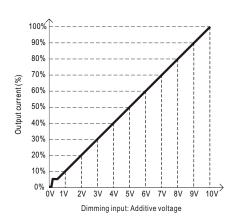


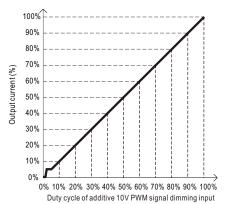
"DO NOT connect "DIM- to Vo-"

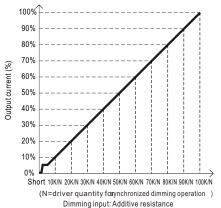
O Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





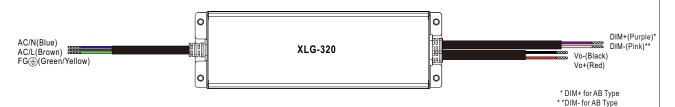


Note : 1. Min. dimming level is about 8% and the output current is not defined when 0% lout <8%

- 2. The output current could drop down to 0% when dimming input is about 0Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.
- 3. When PWM frequency >2K HZ ,the lighting will be triggered at 10~15% PWM duty

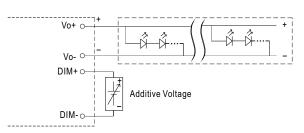


■ DIMMING OPERATION



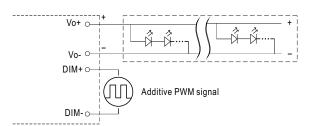
※ 3 in 1 dimming function (for ABV-Type)

- Output constant voltage can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



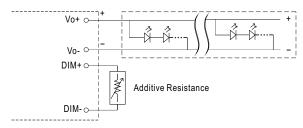
"DO NOT connect "DIM- to Vo-"

O Applying additive 10V PWM signal (frequency range 200Hz ~ 3KHz):

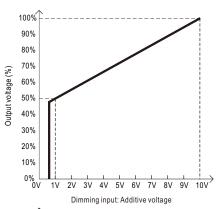


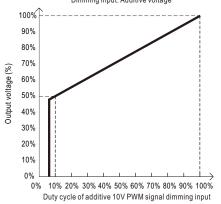
"DO NOT connect "DIM- to Vo-"

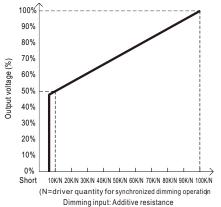
O Applying additive resistance:



"DO NOT connect "DIM- to Vo-"



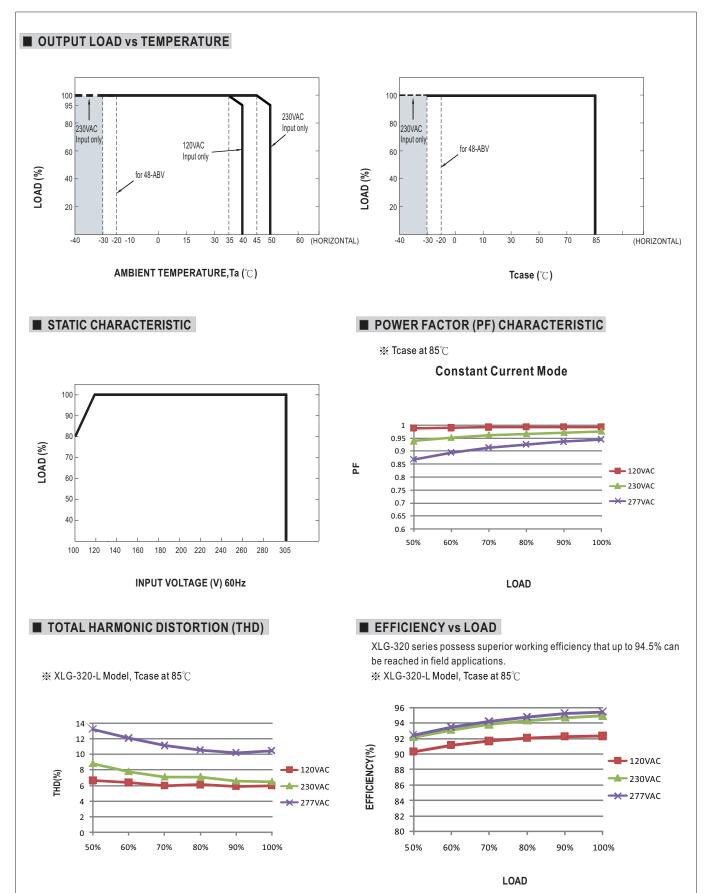




Note: 1. Min. dimming level is about 50% of output voltage and the output voltage is not defined when Vout < 50%

2. The output voltage could drop down to 0V when dimming input is about 0k or 0Vdc, or 10V PWM signal with 0% duty cycle.



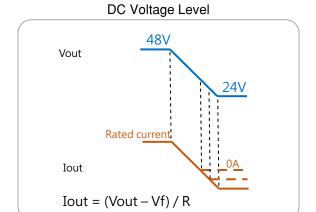




■ CONSTANT VOLTAGE DIMMING OPERATION:

48-ABV type

Note: flicker free design for agricultural lighting flicker free design for Indoor LED strip lighting



(Not a PWM style output)

■ LIFE TIME

