





























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

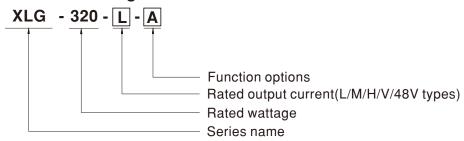
GTIN CODE

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

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

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



SPECIFICATION

| | | 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 NO | | | | | |
| | 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 | | | | | | |
| | 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 | | | | | | | | |
| | FREQUENCY RANGE | (Please refer to "STATIC CHARACTERISTIC" ang "DRIVING METHODS OF LED MODULE" section) 47 ~ 63Hz | | | | | | | | |
| | FREQUENCT 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) | | | | | | | | |
| | | (Please refer to "Power Factor 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.) | | 1 | 92.5% | 93.70 | | | | | |
| | (), , | 3A / 120VAC 1.6A / 230VAC | 1.3A / 277VAC easured at 50% Ipeak) at 230VAC; Pe | or NEMA 410 | | | | | | |
| | INRUSH CURRENT(Typ.) | COLD START 43A(WIGIN=1200µS ME | casureu at 50 % ipeak) at 230VAC; Pe | TINEIVIA 4 IU | | | | | | |
| | MAX. NO. of PSUs on 16A | 2 unit(circuit breaker of type B) / 4 u | nits(circuit breaker of type C) at 230 | VAC | | | | | | |
| | CIRCUIT BREAKER | | | | | | | | | |
| | LEAKAGE CURRENT | <.p><0.75mA / 277VAC | | | | | | | | |
| | STANDBY POWER CONSUMPTION Note.5 | Standby power consumption < 0.5W | Standby power consumption <0.5W for AB-Type(Dimming OFF) | | | | | | | |
| | SHORT CIRCUIT | Hiccup mode or Constant current lin | niting, recovers automatically after fo | ault condition is removed | | | | | | |
| | SHOKT CIRCUIT | 350 ~ 380V | 190 ~ 220V | 63 ~ 78V | 27 ~ 34V | | | | | |
| | OVER VOLTAGE | Shut down output voltage, re-power | | 03~700 | 21~340 | | | | | |
| ROTECTION | | L/M/H-Type: Tcase>85°C ±5°C, der | • | | | | | | | |
| | OVER TEMPERATURE Note.11 | | | | | | | | | |
| | | V-Type: Shut down output voltage, re-power on to recover 108~135%(only for V-type) | | | | | | | | |
| | OVER LOAD Note.10 | Hiccup mode or Constant current lin | niting recovers automatically after f | ault condition is removed | | | | | | |
| | Web/Web- | · · | <u> </u> | | | | | | | |
| | WORKING TEMP. | · · | "OUTPUT LOAD vs TEMPERATUR | E" Section) | | | | | | |
| | MAX. CASE TEMP. | Tcase=+85℃ | | | | | | | | |
| IVIRONMENT | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | | | | |
| VIICONIILINI | STORAGE TEMP., HUMIDITY | -40 ~ +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 | | | | | | | | |
| | | III 8750/tvpe"HI ") CSA C22 2 No. 1 | 250 13-12: ENEC BS EN/EN61347- | 1 RS EN/EN61347-2-13 ind | ependent, 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 TPTC 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:3.75KVAC | AC O/P-FG:1.5KVAC | | | | | | | |
| | WITHSTAND VOLTAGE ISOLATION RESISTANCE | I/P-O/P:3.75KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M Oh | | | | | | | | |
| | | | | | Test Level / Note | | | | | |
| | | I/P-O/P, I/P-FG, O/P-FG:100M Oh | ms / 500VDC / 25°C / 70% RH Standard | ISPR15),GB/T 17743 | Test Level / Note | | | | | |
| | | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter | ms / 500VDC / 25°C / 70% RH Standard BS EN/EN55015(C | ISPR15),GB/T 17743 ISPR15),GB/T 17743 | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter Conducted | ms / 500VDC / 25°C / 70% RH Standard BS EN/EN55015(C | ISPR15),GB/T 17743 | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter Conducted Radiated Harmonic Current | ms / 500VDC / 25°C/ 70% RH Standard BS EN/EN55015(C BS EN/EN55015(C | ISPR15),GB/T 17743 -2 , GB17625.1 | | | | | | |
| AFETY & | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter Conducted Radiated Harmonic Current Voltage Flicker | ms / 500VDC / 25°C / 70% RH Standard BS EN/EN55015(C BS EN/EN55015(C BS EN/EN61000-3- | ISPR15),GB/T 17743 -2 , GB17625.1 | Class C @load≥50% | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 | ms / 500VDC / 25°C / 70% RH Standard BS EN/EN55015(C BS EN/EN55015(C BS EN/EN61000-3- | ISPR15),GB/T 17743 -2 , GB17625.1 | Class C @load≥50% | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter | ms / 500VDC / 25°C / 70% RH Standard BS EN/EN55015(C BS EN/EN55015(C BS EN/EN61000-3- BS EN/EN61000-3- Standard | ISPR15),GB/T 17743 2 , GB17625.1 3 | Class C @load≥50% Test Level / Note | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD | ms / 500VDC / 25°C / 70% RH Standard BS EN/EN55015(C BS EN/EN55015(C BS EN/EN61000-3- BS EN/EN61000-3- Standard BS EN/EN61000-4-2 | ISPR15),GB/T 17743 .2 , GB17625.1 .3 | Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated | ms / 500VDC / 25°C / 70% RH Standard BS EN/EN55015(C BS EN/EN65000-3- BS EN/EN61000-3- Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 | ISPR15),GB/T 17743 .2 , GB17625.1 .3 | Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 | | | | | |
| | EMC EMISSION | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst | ms / 500VDC / 25°C / 70% RH Standard BS EN/EN55015(C BS EN/EN61000-3- BS EN/EN61000-3- Standard BS EN/EN61000-4-2 | ISPR15),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 | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge | ms / 500VDC / 25°C / 70% RH Standard BS EN/EN55015(C BS EN/EN61000-3- BS EN/EN61000-3- Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3 | ISPR15),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 | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted | ms / 500VDC / 25°C / 70% RH Standard BS EN/EN55015(C BS EN/EN61000-3- BS EN/EN61000-3- Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-3 | ISPR15),GB/T 17743 -2, GB17625.1 -3 -2 -3 -4 -5 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -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 | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field | ms / 500VDC / 25°C / 70% RH Standard | ISPR15), GB/T 17743 -2, GB17625.1 -3 -2 -3 -4 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -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 Level 2 Level 4 | | | | | |
| | EMC EMISSION | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted | ms / 500VDC / 25°C / 70% RH Standard BS EN/EN55015(C BS EN/EN61000-3- BS EN/EN61000-3- Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-3 | ISPR15), GB/T 17743 -2, GB17625.1 -3 -2 -3 -4 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -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 Level 2 | | | | | |
| | EMC EMISSION | I/P-O/P, I/P-FG, O/P-FG:100M Oh Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions | ms / 500VDC / 25°C/ 70% RH Standard BS EN/EN55015(C BS EN/EN55015(C BS EN/EN61000-3- BS EN/EN61000-3- Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-4 BS EN/EN61000-4-4 BS EN/EN61000-4-4 BS EN/EN61000-4-4 | ISPR15),GB/T 17743 22,GB17625.1 3 2 3 4 5 6 3 111 | 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 | I/P-O/P, I/P-FG, O/P-FG:100M Oh 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 | ms / 500VDC / 25°C/ 70% RH Standard BS EN/EN55015(C BS EN/EN55015(C BS EN/EN61000-3- BS EN/EN61000-3- Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-4 BS EN/EN61000-4-4 BS EN/EN61000-4-4 BS EN/EN61000-4-4 | ISPR15),GB/T 17743 22,GB17625.1 3 2 3 4 5 6 3 111 | 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, | | | | | |
| ИС | EMC EMISSION EMC IMMUNITY MTBF DIMENSION | I/P-O/P, I/P-FG, O/P-FG:100M Oh 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) | ms / 500VDC / 25°C/ 70% RH Standard BS EN/EN55015(C BS EN/EN55015(C BS EN/EN61000-3- BS EN/EN61000-3- Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-4 BS EN/EN61000-4-4 BS EN/EN61000-4-4 BS EN/EN61000-4-4 | ISPR15),GB/T 17743 22,GB17625.1 3 2 3 4 5 6 3 111 | 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, | | | | | |
| ИС | EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING | I/P-O/P, I/P-FG, O/P-FG:100M Oh 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) 1.45Kg:9pcs/14Kg/0.76CUFT | ms / 500VDC / 25°C / 70% RH Standard BS EN/EN55015(C BS EN/EN55015(C BS EN/EN61000-3- BS EN/EN61000-3- Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6 | ISPR15),GB/T 17743 22, GB17625.1 3 2 3 4 5 6 3 11 -HDBK-217F (25°C) | 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, | | | | | |
| THERS | EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially mention 2. De-rating may be needed under low | I/P-O/P, I/P-FG, O/P-FG:100M Oh 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) 1.45Kg;9pcs/14Kg/0.76CUFT ned are measured at 230VAC input, ratinput voltages. Please refer to "STATIC | ms / 500VDC / 25°C / 70% RH Standard | ISPR15),GB/T 17743 -2, GB17625.1 -3 -2 -3 -4 -5 -5 -6 -3 -11 -HDBK-217F (25°C) | 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, >95% interruptions 250 periods | | | | | |
| THERS | EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially mentio 2. De-rating may be needed under low 3. The driver is considered as a compo | I/P-O/P, I/P-FG, O/P-FG:100M Oh 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) 1.45Kg;9pcs/14Kg/0.76CUFT ned are measured at 230VAC input, ratinput voltages. Picar TayTic nett hat will be operated to combination | ms / 500VDC / 25°C / 70% RH Standard | ISPR15),GB/T 17743 -2, GB17625.1 -3 -2 -3 -4 -5 -5 -6 -3 -11 -HDBK-217F (25°C) | 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, >95% interruptions 250 periods | | | | | |
| OTHERS | EMC EMISSION EMC EMISSION MTBF DIMENSION PACKING 1. All parameters NOT specially mentio 2. De-rating may be needed under low 3. The driver is considered as a compo the final equipment manufacturers m (as available on https://www.meanwe | I/P-O/P, I/P-FG, O/P-FG:100M Oh 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) 1.45Kg;9pcs/14Kg/0.76CUFT oned are measured at 230VAC input, rate input voltages. Please refer to "STATIC cent that will be operated in combination ust re-qualify EMC Directive on the com | ms / 500VDC / 25°C / 70% RH Standard | ISPR15),GB/T 17743 22, GB17625.1 3 2 3 4 5 6 3 11 -HDBK-217F (25°C) | 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, >95% interruptions 250 periods | | | | | |
| OTHERS | EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially mentio 2. De-rating may be needed under low 3. The driver is considered as a compo the final equipment manufacturers m (as available on https://www.meanwe 4. This series meets the typical life eye 4. This series meets the typical life eye | I/P-O/P, I/P-FG, O/P-FG:100M Oh 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) 1.45Kg:9pcs/14Kg/0.76CUFT ned are measured at 230VAC input, ratinput voltages. Please refer to "STATIC input that will be operated in combination rectancy 50,000 hours of operation whe | ms / 500VDC / 25°C / 70% RH Standard | ISPR15), GB/T 17743 -2, GB17625.1 -3 -2 -3 4 -5 -6 -3 | Class C @load≥50% Class C @load≥50% Class C @load≥50% Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods The complete installation, | | | | | |
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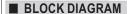
- X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

312W Constant Voltage LED Driver

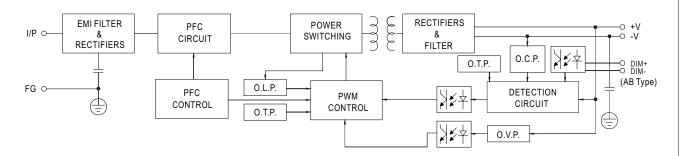
SPECIFICATION

| | | XLG-320-48-ABV | | | | | |
|------------|--|--|--|--|--|--|--|
| | RATED CURRENT | 6.5A | | | | | |
| | RATED POWER (Max.) | 312W | | | | | |
| | DC VOLTAGE | 48V(Adjustable 43.2~52.8V) | | | | | |
| | RIPPLE & NOISE(max.) | 250mVp-p | | | | | |
| OUTPUT | VOLTAGE TOLERANCE | ±2.0% | | | | | |
| | LINE REGULATION | ±0.5% | | | | | |
| | LOAD REGULATION | $\pm 0.5\%$ | | | | | |
| | DIMMING TOLERANCE | ±4% | | | | | |
| | SET UP TIME Note.9 | 500ms/230VAC, 1200ms/115VAC | | | | | |
| | RISE TIME,HOLD UP TIME (Typ.) | 160ms,10ms/230VAC/115VAC | | | | | |
| INPUT | VOLTAGE RANGE Note.2 | 100 ~ 305VAC 142VDC ~ 431VDC | | | | | |
| | FREQUENCY RANGE | (Please refer to "STATIC CHARACTERISTIC") 47 ~ 63Hz | | | | | |
| | | | | | | | |
| | POWER FACTOR (Typ.) | PF≥0.98 / 115VAC, PF≥0.95 / 230VAC, PF≥0.92 / 277VAC at full load THD<10% @ load≥50% at 115VAC/230VAC, THD<15%@Load>75% at 277VAC; | | | | | |
| | TOTAL HARMONIC DISTORTION | | | | | | |
| | EFFICIENCY (Typ.) | 93.5% | | | | | |
| | AC CURRENT (Typ.) | 3A / 120VAC | | | | | |
| | INRUSH CURRENT(Typ.) | COLD START 45A(twidth=1200µs measured at 50% Ipeak) 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 <0.5W for ABV/BV-Type(Dimming OFF) | | | | | |
| | SHORT CIRCUIT | Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed | | | | | |
| | OVER VOLTAGE | 54~60V | | | | | |
| | | Shut down output voltage, re-power on to recovery | | | | | |
| ROTECTION | OVER TEMPERATURE Note.10 | Shut down output voltage, re-power on to | recovery | | | | |
| | OVER LOAD | 105~135% | | | | | |
| | OVEREDAD | Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed | | | | | |
| | WORKING TEMP. | Tcase=-20 ~ +85°C (Please refer to "OUT | PUT LOAD vs TEMPERATURE" section) | | | | |
| | MAX. CASE TEMP. | Tcase=+85°C | | | | | |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | |
| NVIRONMENT | STORAGE TEMP., HUMIDITY | -20 ~ +80°C, 10 ~ 95% RH non-condensi | ing | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 60°C) | | | | | |
| | | | | | | | |
| | | , , | r 72min each along X V 7 aves | | | | |
| | VIBRATION | 10 ~ 500Hz, 5G 12min./1cycle, period for | • | L L DO ENTENDOS | | | |
| | | 10 ~ 500Hz, 5G 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in | odependent, BS EN/EN62384; | | | |
| | VIBRATION SAFETY STANDARDS | 10 ~ 500Hz, 5G 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 04; IP67 approved | ndependent, BS EN/EN62384; | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE | 10 ~ 500Hz, SG 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir)4; IP67 approved O/P-FG:1.5KVAC | ndependent, BS EN/EN62384; | | | |
| | VIBRATION SAFETY STANDARDS | 10 ~ 500Hz, 5G 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / i | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in)4; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH | | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE | 10 ~ 500Hz, 5G 12min/1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms /: Parameter | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in)4; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard | Test Level / Note | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE | 10 ~ 500Hz, SG 12min./1cycle, period for UL8750(type*HL**), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15),GB/T 17743 | Test Level / Note | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE | 10 ~ 500Hz, 5G 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / Parameter Conducted Radiated | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN55015(CISPR15),GB/T 17743 | Test Level / Note | | | |
| SAFETY & | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE | 10 ~ 500Hz, SG 12min./1cycle, period for UL8750(type*HL**), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / S Parameter Conducted Radiated Harmonic Current | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN55015(CISPR15),GB/T 17743 | Test Level / Note Class C @load≥50% | | | |
| SAFETY & | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE | 10 ~ 500Hz, SG 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / S Parameter Conducted Radiated Harmonic Current Voltage Flicker | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN55015(CISPR15),GB/T 17743 | Test Level / Note | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE | 10 ~ 500Hz, SG 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / S Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 | Test Level / Note Class C @load≥50% | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE | 10 ~ 500Hz, SG 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms /: Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 | Test Level / Note Class C @load≥50% Test Level / Note | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE | 10 ~ 500Hz, SG 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms /: Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 | Test Level / Note Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE | 10 ~ 500Hz, \$G 12min/1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms /: Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 | Test Level / Note Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE | 10 ~ 500Hz, \$G 12min/1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms /: Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 | Test Level / Note Class C @load≥50% Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION | 10 ~ 500Hz, \$G 12min/1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms /: Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 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 | Test Level / Note 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 | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION | 10 ~ 500Hz, SG 12min/1cycle, period for UL8750(type°HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms /: Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 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 | Test Level / Note 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 | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION | 10 ~ 500Hz, \$G 12min/1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms /: Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 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 | Test Level / Note 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 | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION | 10 ~ 500Hz, SG 12min/1cycle, period for UL8750(type°HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms /: Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT / Burst Surge Conducted | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 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 | Test Level / Note 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, | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY | 10 ~ 500Hz, SG 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 II/P-O/P:3.75KVAC I/P-FG:2KVAC II/P-O/P, I/P-FG, O/P-FG:100M Ohms / I/P-G/P, I/P-G/P, I/P-G/P, I/P-FG:100M Ohms / I/P-G/P, | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11 | Test Level / Note 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 | | | |
| ЕМС | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY | 10 ~ 500Hz, SG 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 II/P-O/P:3.75KVAC I/P-FG:2KVAC II/P-O/P, I/P-FG, O/P-FG:100M Ohms / S 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(Bellot | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11 | Test Level / Note 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, | | | |
| ЕМС | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION | 10 ~ 500Hz, SG 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 II/P-O/P:3.75KVAC I/P-FG:2KVAC II/P-O/P, I/P-FG, O/P-FG:100M Ohms / S 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(Bellot 246*77*39.5mm (L*W*H) | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11 | Test Level / Note 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, | | | |
| | VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING | 10 ~ 500Hz, SG 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14;EAC TP TC 00 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / I/P-G/P, I/P-FG:100M Ohms / I/P-G/P, I/P-FG:100M Ohms / I/P-G/P, I/P-FG:100M Ohms / I/P-G/P, I/P-FG:100M Ohms / I/P-G/P, | 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 in 04; IP67 approved O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11 | Test Level / Note 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, | | | |



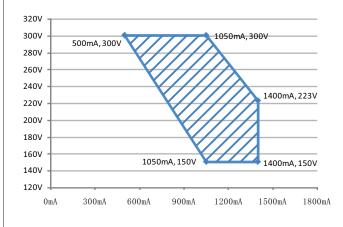


PFC fosc : 45KHz PWM fosc : 100KHz

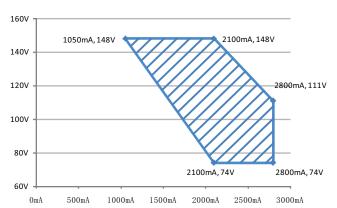


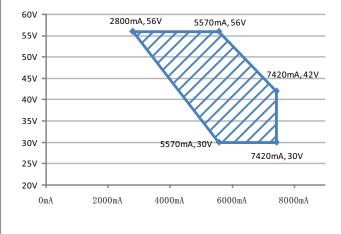
■ DRIVING METHODS OF LED MODULE

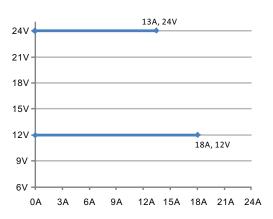




XLG-320-M



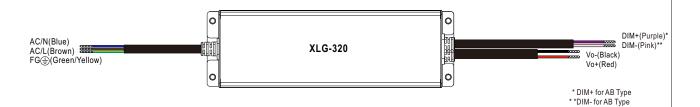




🔆 V type output voltage adjustable via biult-in potentiometer

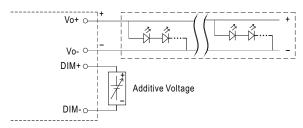


■ DIMMING OPERATION



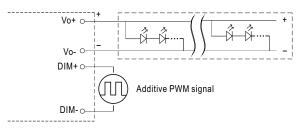
※ 3 in 1 dimming function (for AB-Type)

- 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.)



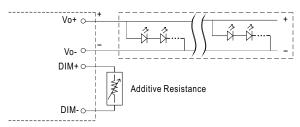
"DO NOT connect "DIM- to Vo-"

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

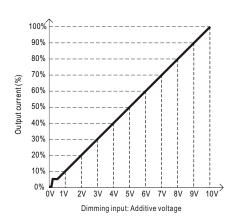


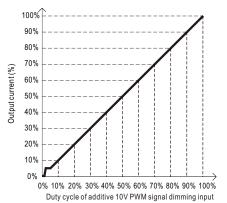
"DO NOT connect "DIM- to Vo-"

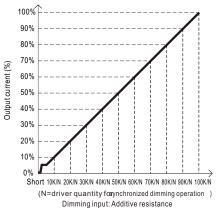
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





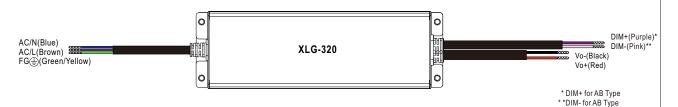


Note : 1. Min. dimming level is about 8% and the output current is not defined when 0% lout <8%

- 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

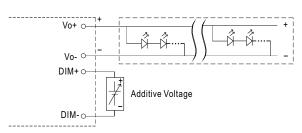
MEAN WELL

■ DIMMING OPERATION



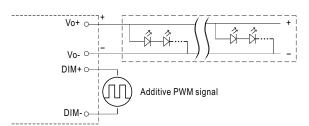
※ 3 in 1 dimming function (for ABV-Type)

- 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



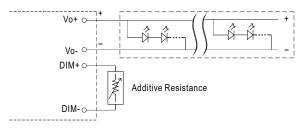
"DO NOT connect "DIM- to Vo-"

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

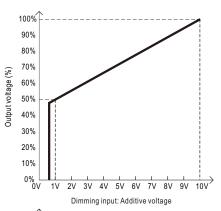


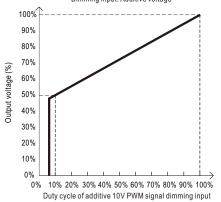
"DO NOT connect "DIM- to Vo-"

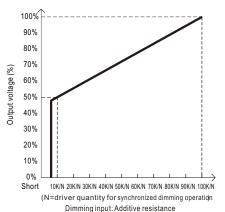
O Applying additive resistance:



"DO NOT connect "DIM- to Vo-"



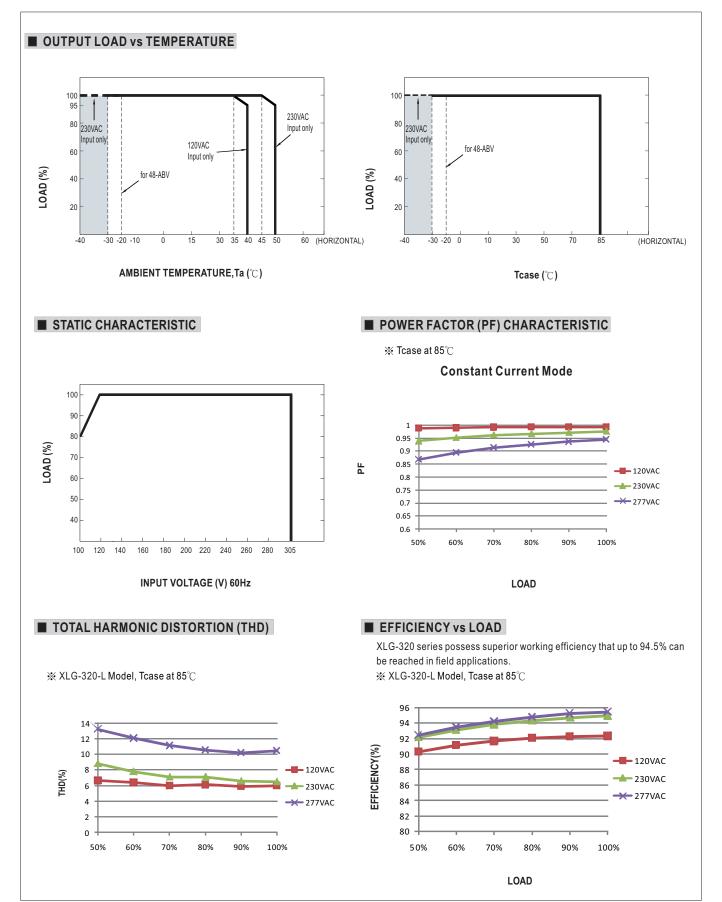




Note: 1. Min. dimming level is about 50% of output voltage and the output voltage is not defined when Vout < 50%

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.





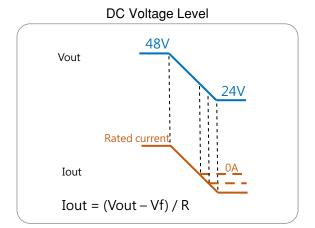


■ CONSTANT VOLTAGE DIMMING OPERATION:

48-ABV type

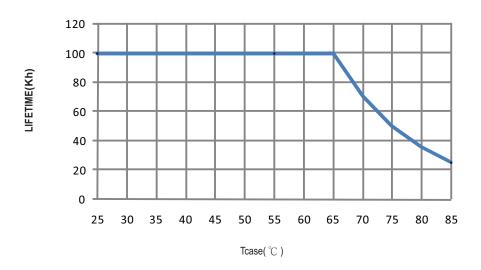
Note: flicker free design for agricultural lighting flicker free design for Indoor LED strip lighting

Vout 30. 0v 20. 0v 10. 0v 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V Vdim

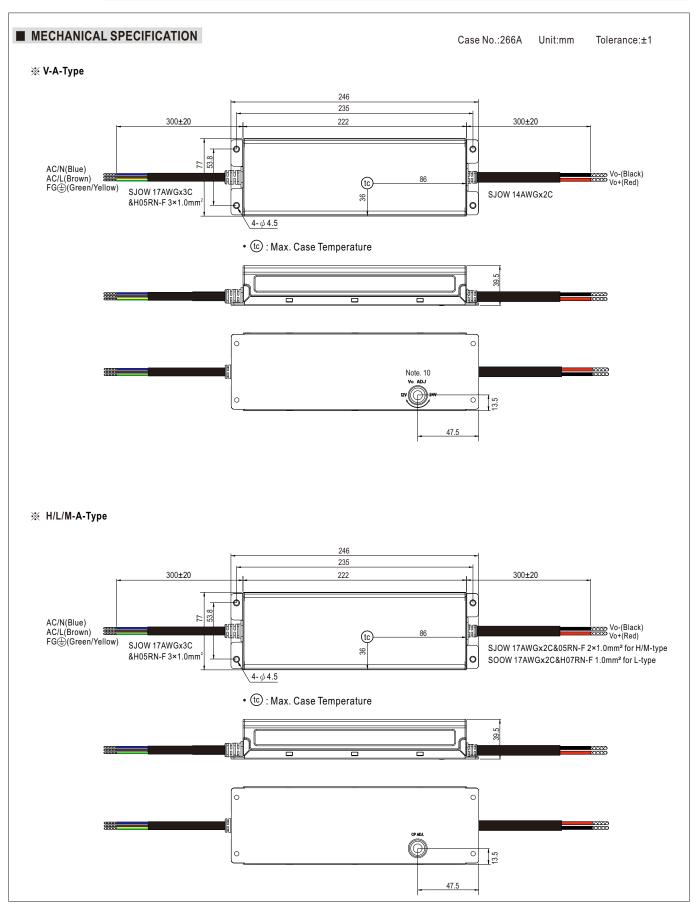


(Not a PWM style output)

■ LIFE TIME









※ AB/ABV-Type 235 300±20 320±20 222 UL2517 20AWGx2C DIM+(Purple) DIM-(Pink) AC/N(Blue) AC/L(Brown) FG (Green/Yellow) (tc) Vo-(Black) Vo+(Red) SJOW 17AWGx3C 38 &H05RN-F 3×1.0mm2 0 300±20 4- ψ 4.5 SJOW 17AWGx2C&05RN-F 2×1.0mm² SOOW 17AWGx2C&H07RN-F 1.0mm² for L-type ullet (tc): Max. Case Temperature 0 13.5 ■ Recommend Mounting Direction **■ INSTALLATION MANUAL** Please refer to: http://www.meanwell.com/manual.html

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MEAN WELL:

XLG-320-48-ABV