

120W Constant Voltage PWM Output LED Driver

M SELV IP67

(CCC optional)

PWM-120 series





<u>k</u>

IS 15885(Part 2/Sec13)

8

R-41027766

(for PWM-120-12,24 only)

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AC Input: 100-240Vac (for DA2-Type only)

Features

· Constant voltage PWM style output

- Emergengcy lighting application is available according to IEC61347-2-13
- Built-in active PFC function and class II design
- No load power consumption <0.5W/ standby power consumption <0.5W(DA/DA2-type)

\M/

- Fully encapsulated with IP67 level
- Function options: 3 in 1 dimming (dim-to-off); DALI/DALI-2
- Minimum dimming level 0.2% for DALI type
- Typical lifetime>50000 hours and 5 years warranty

E334687 Type HL (except for 12DA type)

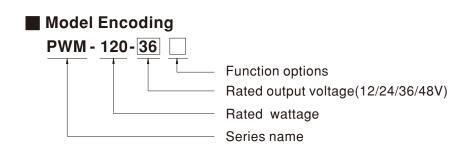
- LED strip lighting
- Indoor LED lighting
- LED decorative lighting
- · LED architecture lighting
- Industrial lighting
- Type "HL" for use in class I, division 2 hazardous (classified) location.

GTIN CODE

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

Description

PWM-120 series is a 120W AC/DC LED driver featuring the constant voltage mode with PWM style output, which is able to maintain the color temperature and the brightness homogeneity when driving all kinds of LED strips. PWM-120 operates from $90 \sim 305$ VAC and offers models with different rated voltage ranging between 12V and 48V. Thanks to the high efficiency up to 90.5%, with the fanless design, the entire series is able to operate for -40° C $\sim +90^{\circ}$ C case temperature under free air convection. The entire series is rated with IP67 ingress protection level and is suitable to work for dry, damp or wet locations. PWM-120 is equipped with dimming function that varies the duty cycle of the output, providing great flexibility for LED strips applications.



| Туре | IP Level | Function | Note |
|-------|----------|--|----------|
| Blank | IP67 | 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance) | In stock |
| DA | IP67 | DALI control technology.(for 12V/24V DA type only) | In stock |
| DA2 | IP67 | DALI-2 control technology.(for 12V/24V with DA2 Type only) | In stock |

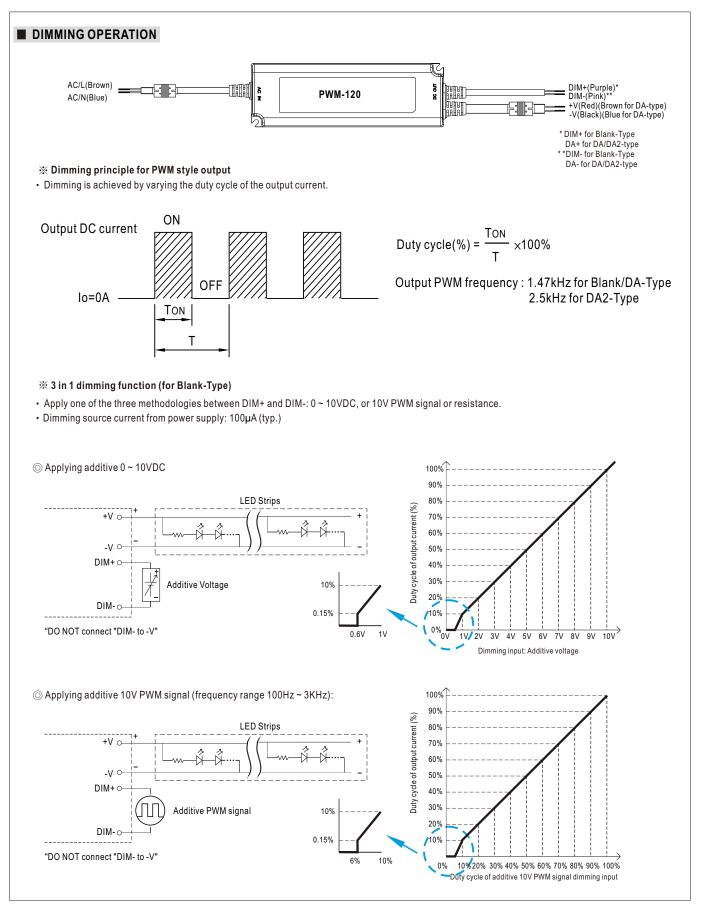


SPECIFICATION

| Nata 0 | (Please refer to "POWER FA THD< 20%(@load≧60%/1 (Please refer to "TOTAL H 88.5% 1.3A / 115VAC 0.65A / COLD START 60A(twidth=52 | 15VAC 1VDC 1ARACTERISTIC" section) 230VAC, PF>0.93/277VAC @ ACTOR (PF) CHARACTERIST 15VAC, 230VAC; @load≥75 | TC" section) 5%/277VAC) | 48V 2.5A 120W | | | | |
|--|---|--|---|---|--|--|--|--|
| ATED POWER IMMING RANGE WM FREQUENCY (Typ.) ETUP, RISE TIME Note.2 Note.9 OLD UP TIME (Typ.) OLTAGE RANGE Note.3 REQUENCY RANGE OWER FACTOR (Typ.) DTAL HARMONIC DISTORTION FFICIENCY (Typ.) C CURRENT (Typ.) IRUSH CURRENT (Typ.) AX. NO. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT | 120W 0 ~ 100% 1.47kHz for Blank/DA-Type, 500ms, 80ms/ 230VAC or 11 16ms/230VAC or 115VAC 90 ~ 305VAC 127 ~ 43 (Please refer to "STATIC CH 47 ~ 63Hz PF>0.97/115VAC, PF>0.96/ (Please refer to "POWER FA THD< 20%(@load≧60%/1 (Please refer to "TOTAL H 88.5% 1.3A / 115VAC 0.65A / COLD START 60A(twidth=52 | 120W 2.5kHz for DA2-Type 15VAC 1VDC 4ARACTERISTIC" section) 230VAC, PF>0.93/277VAC @ ACTOR (PF) CHARACTERIST 15VAC, 230VAC; @load≥75 ARMONIC DISTORTION" s 90% | 122.4W 122.4W full load TC" section) 5%/277VAC) ection) | | | | | |
| IMMING RANGE WM FREQUENCY (Typ.) ETUP, RISE TIME Note.2 Note.9 OLD UP TIME (Typ.) OLTAGE RANGE Note.3 REQUENCY RANGE OWER FACTOR (Typ.) DTAL HARMONIC DISTORTION FFICIENCY (Typ.) C CURRENT (Typ.) IRUSH CURRENT (Typ.) AX. NO. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT | 0 ~ 100% 1.47kHz for Blank/DA-Type, 500ms, 80ms/ 230VAC or 11 16ms/230VAC or 115VAC 90 ~ 305VAC 127 ~ 43 (Please refer to "STATIC CH 47 ~ 63Hz PF>0.97/115VAC, PF>0.96/ (Please refer to "POWER FA THD< 20%(@load≧60%/1 (Please refer to "TOTAL H 88.5% 1.3A / 115VAC 0.65A / COLD START 60A(twidth=52) | 2.5kHz for DA2-Type 15VAC 1VDC HARACTERISTIC" section) 230VAC, PF>0.93/277VAC @ ACTOR (PF) CHARACTERIST 15VAC, 230VAC; @load≧75 ARMONIC DISTORTION" s 90% | full load TC" section) 5%/277VAC) ection) | 120W | | | | |
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| C CURRENT (Typ.) IRUSH CURRENT (Typ.) AX. NO. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT | 1.3A / 115VAC 0.65A / COLD START 60A(twidth=52 | | 90% | THD< 20%(@load≧60%/115VAC, 230VAC; @load≧75%/277VAC) Please refer to "TOTAL HARMONIC DISTORTION" section) | | | | |
| IRUSH CURRENT (Typ.) AX. NO. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT | COLD START 60A(twidth=52 | 230VAC 0.55A / 277VA | | 90.5% | | | | |
| AX. NO. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT | | | C | | | | | |
| IRCUIT BREAKER EAKAGE CURRENT | A units (circuit breaker of tur | COLD START 60A(twidth=520µs measured at 50% Ipeak) at 230VAC; Per NEMA 410 | | | | | | |
| EAKAGE CURRENT | 4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC | | | | | | | |
| O LOAD/STANDBY | <0.25mA/277VAC | | | | | | | |
| OWER CONSUMPTION | No load power consumption | <0.5w for blank-type;standby | / power consumption<0.5W f | or DA-type/DA2-type | | | | |
| VERLOAD | 108 ~ 130% rated output power Hiccup mode, recovers automatically after fault condition is removed | | | | | | | |
| HORT CIRCUIT | 12V/24V hiccup mode and 36V/48V shut down mode(including DA-type/except for DA2-type) Hiccup mode, recovers automatically after fault condition is removed (only for DA2-type) | | | | | | | |
| VER VOLTAGE | 15 ~ 17V | 28~34V | 41~46V | 54 ~ 60V | | | | |
| | 1 01 1 | | | | | | | |
| - | 1 0 1 | | | | | | | |
| | | e refer to "OUTPUT LOAD vs | TEMPERATURE [®] section) | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| IBRATION | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | | | | |
| AFETY STANDARDS Note.5 | UL8750(type "HL")(except for 12DA type), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent, IP67,BIS IS15885(for PWM-120-12,24 only), EAC TP TC 004,GB19510.1,GB19510.14 approved; Design refer to BS EN/EN60335-1; According to BS EN/EN61347-2-13 appendix J suitable for emergency installations(EL)(AC Input: 100-240Vac)(for DA2-Type only) | | | | | | | |
| ALI STANDARDS | IEC62386-101, 102, 207,251 for DA/DA2-Type only, Device type 6(DT6) | | | | | | | |
| VITHSTAND VOLTAGE | I/P-O/P:3.75KVAC; I/P-DA:1.5KVAC; O/P-DA:1.5KVAC | | | | | | | |
| SOLATION RESISTANCE | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | |
| MC EMISSION Note.6 | Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥60%) ; BS EN/EN61000-3-3,GB17743 and GB17625.1,EAC TP TC 020 | | | | | | | |
| MC IMMUNITY | Compliance to BS EN/EN6 EAC TP TC 020 | 1000-4-2,3,4,5,6,8,11; BS EN | I/EN61547, light industry leve | el (surge immunity Line-Line 2KV), | | | | |
| ITBF | 2243.7K hrs min. Telcore | dia SR-332 (Bellcore) ; 2 | 28.7K hrs min. MIL-HDBk | ‹-217F (25℃) | | | | |
| IMENSION | 191*63*37.5mm (L*W*H) | | | | | | | |
| ACKING | 0.97Kg; 15pcs/15.6Kg/0.87 | CUFT | | | | | | |
| All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the set up time will be higher than 0.5 second for DA type. Product Liability Disclaimer : For detailed information, please refer to thttps://www.meanwell.com/serviceDisclaimer.aspx | | | | | | | | |
| | DWER CONSUMPTION YERLOAD ORT CIRCUIT VER VOLTAGE YER VOLTAGE YER VOLTAGE YER VOLTAGE YER TEMPERATURE DRKING TEMP. AX. CASE TEMP. DRKING HUMIDITY ORAGE TEMP., HUMIDITY MP. COEFFICIENT BRATION FETY STANDARDS Note.5 ALI STANDARDS Note.5 DLATION RESISTANCE IC EMISSION Note.6 IC IMMUNITY TBF MENSION CKING All parameters NOT specially De-rating may be needed un Length of set up time is mea The driver is considered as a by the complete installation, This series meets the typical Please refer to the warranty of The ambient temperature de For any application note and Attraps://www.meanwell.com/L Based on IEC 62386-101/10 can support for DALI power of | Notical power consumption Terr 108 ~ 130% rated output po Hiccup mode, recovers auto ORT CIRCUIT 12V/24V hiccup mode and 3 Hiccup mode, recovers auto Miccup mode, recovers auto 15 ~ 17V VER VOLTAGE Shut down o/p voltage, re-p Shut down o/p voltage, re-p ORKING TEMP. Tcase=-40 ~ +90°C (Please AX. CASE TEMP. Tcase=+90°C ORKING HUMIDITY 20 ~ 95% RH non-condensi ORAGE TEMP, HUMIDITY ORAGE TEMP, HUMIDITY -40 ~ +80°C, 10 ~ 95% RH MP. COEFFICIENT ±0.03%/°C (0 ~ 45°C, except BRATION 10 ~ 500Hz, 5G 12min./1cy FETY STANDARDS Notes. BS EN/EN62384 independe approved; Design refer to E installations(EL)(AC Input: ALI STANDARDS IEC62386-101, 102, 207, 2 THSTAND VOLTAGE I/P-O/P:100M Ohms / 500' IC EMISSION Note.6 Compliance to BS EN/EN6 GB17625.1,EAC TP TC 020 REF 2243.7K hrs min. Telcore MENSION 191*63*37.5mm (L*W*H) 0.97Kg; 15pcs/15.6Kg/0.87 All parameters NOT specially mentioned are measured at 2 De-rating may be needed under low input voltages. Please ength of set up time is measured at first cold start. Turning The driver is considered as a component that will be operat by the complete installation, the final equipment manufactu This series meets the typical life expectancy of >50,000 hou Please refer to the warranty statement on MEAN WELL's w The ambient temperature d | WER CONSUMPTION No fold power consumption C.0.sw for blank-type,standog IBR - 130% rated output power 108 ~ 130% rated output power Hiccup mode, recovers automatically after fault condition 12V/24V hiccup mode and 36V/48V shut down mode(inc Hiccup mode, recovers automatically after fault condition VER VOLTAGE 15 ~ 17V 28 ~ 34V Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover DRKING TEMP. Tcase=-40 ~ +90°C ORAGE TEMP, HUMIDITY 20 ~ 95% RH non-condensing ORAGE TEMP, HUMIDITY 20 ~ 95% RH non-condensing ORAGE TEMP, HUMIDITY -40 ~ +80°C, 10 ~ 95% RH MP. COEFFICIENT ±0.03%/°C (0 ~ 45°C, except 0 ~ 40°C for 12V) BRATION 10 ~ 500Hz, 56 12min/1cycle, period for 72min. each a FETY STANDARDS Notes FETY STANDARDS IEC62386-101, 102, 207, 251 for DA/DA2-Type only, E THSTAND VOLTAGE I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH IC EMISSION Note.6 Compliance to BS EN/EN5015, BS EN/EN61000-3-2 C GB17625.1, EAC TP TC 020 Compliance to BS EN/EN5015, BS EN/EN61000-3-2 C GB17625.1, EAC TP TC 020 Compliance to BS EN/EN5015, BS EN/EN61000-3-2 C GB147625.1, EAC TP TC 020 </td <td>WER CONSUMPTION No food power consumption v0.sw for blank-type, standary power consumption v0.sw for blank-type, v0.sw for v0.sw for v0.sw for v0.sw for v0.sw for blank-type, v0.sw for v0.s</td> | WER CONSUMPTION No food power consumption v0.sw for blank-type, standary power consumption v0.sw for blank-type, v0.sw for v0.sw for v0.sw for v0.sw for v0.sw for blank-type, v0.sw for v0.s | | | | |

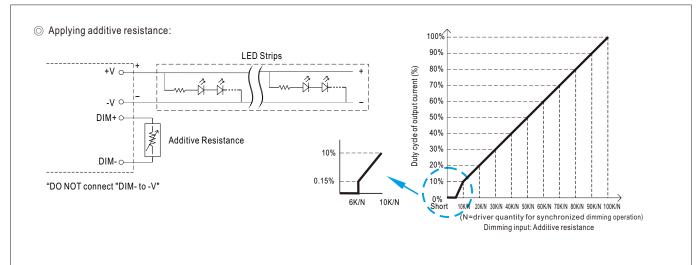


PWM-120 series





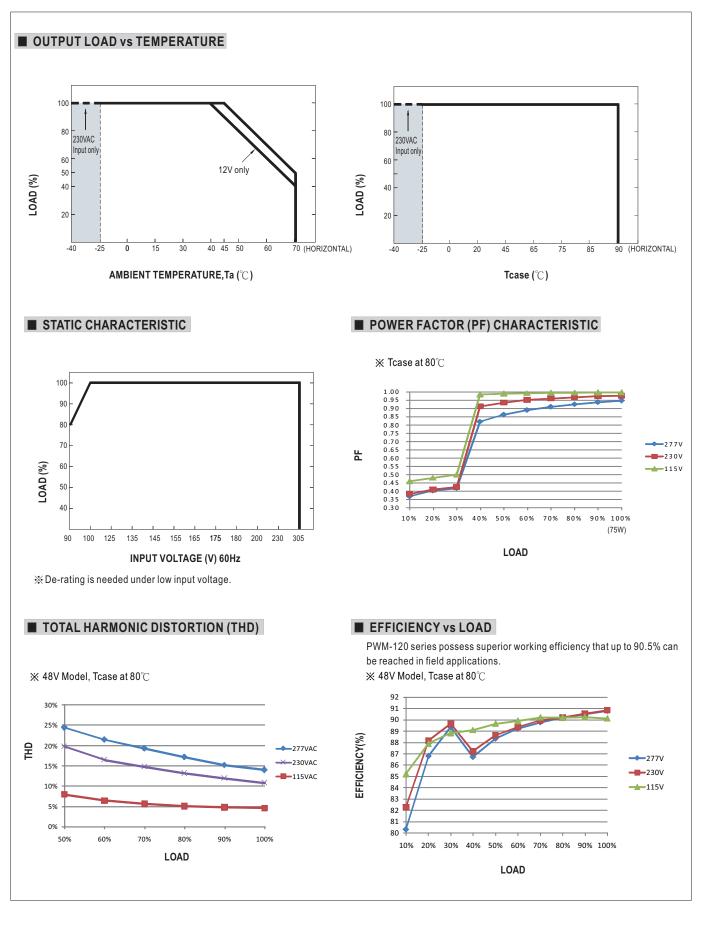
PWM-120 series



<sup>Note : 1. Min. duty cycle of output current is about 0.15%, and the dimming input is about 6KΩ or 0.6VDC, or 10V PWM signal with 6% duty cycle.
2. The duty cycle of output current could drop down to 0% when dimming input is less than 6KΩ or less than 0.6VDC, or 10V PWM signal with duty cycle less than 6%.</sup>

- ※ DALI Interface (primary side; for DA/DA2-Type)
- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 0.2% of output



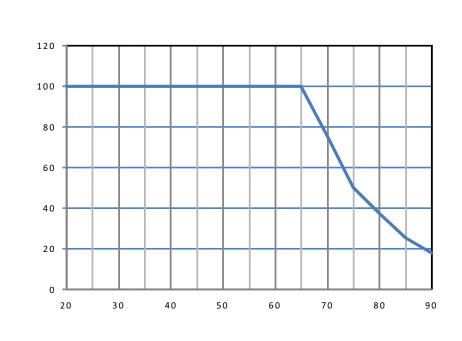




PWM-120 series

LIFE TIME

LIFETIME(Kh)

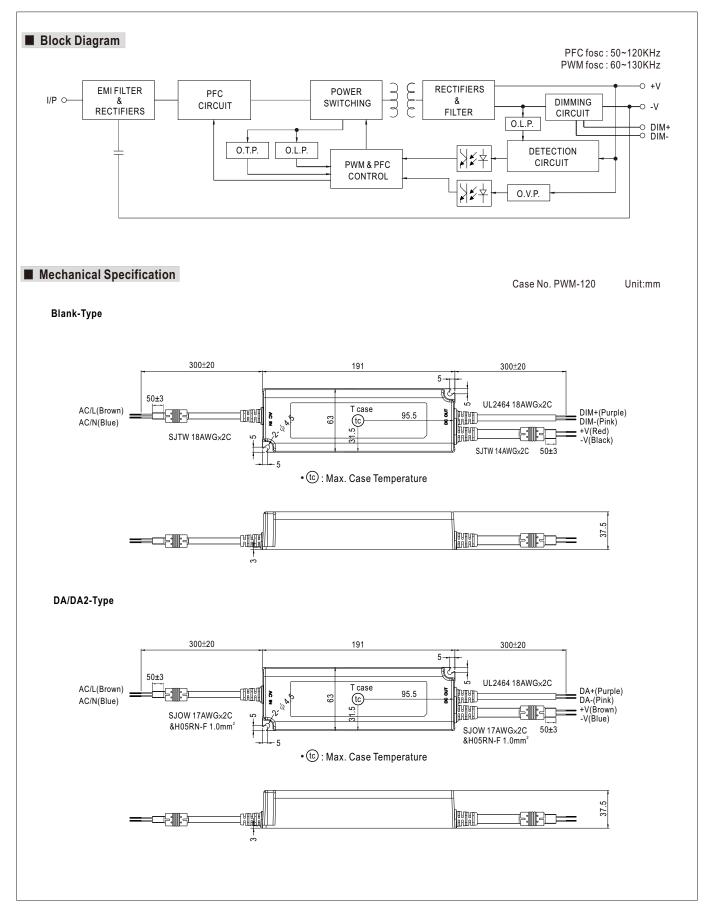




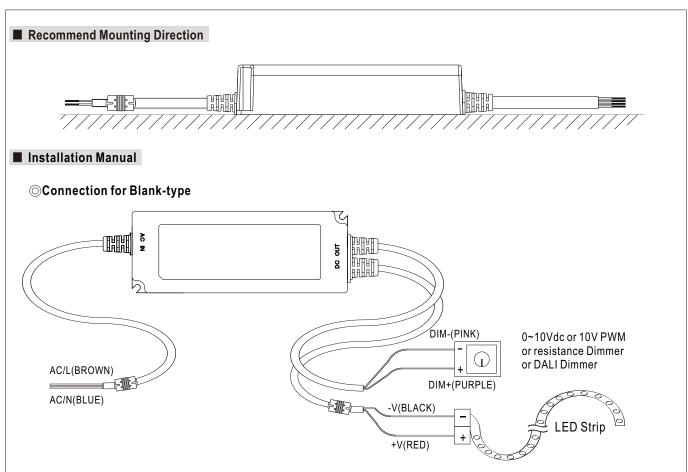


120W PWM Output LED Driver

PWM-120 series







○Cautions

- Before commencing any installation or maintenance work, please disconnect the power supply from the utility. Ensure that it cannot be re-connected inadvertently!
- Keep proper ventilation around the unit and do not stack any object on it. Also a 10-15 cm clearance must be kept when the adjacent device is a heat source.
- Mounting orientations other than standard orientation or operate under high ambient temperature may increase the internal component temperature and will require a de-rating in output current.
- Current rating of an approved primary /secondary cable should be greater than or equal to that of the unit. Please refer to its specification.
- For LED drivers with waterproof connectors, verify that the linkage between the unit and the lighting fixture is tight so that water cannot intrude into the system.
- For dimmable LED drivers, make sure that your dimming controller is capable of driving these units.PWM series require 0.15mA each unit.
- Tc max. is identified on the product label. Please make sure that temperature of Tc point will not exceed limit.
- DO NOT connect "DIM- to -V".
- Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minutes.
- The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.