



IS 15885(Part 2/Sec13)

8 R-41027766

(for 12,24,48 Blank Type only) (for 12,24 Blank Type only)

(or DA-Type only)

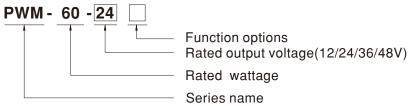
Features

- Constant Voltage PWM style output with frequency 1.47kHz
- Plastic housing with class II design
- Built-in active PFC function
- Class 2 power unit
- No load power consumption <0.5W
- Fully encapsulated with IP67 level
- Function: 3 in 1 dimming(dim-to-off); DALI
- Typical lifetime>50000 hours
- 5 years warranty

Description

PWM-60 series is a 60W LED AC/DC LED driver featuring the constant voltage mode with PWM style output, which is able to maintain the brightness homogeneity when driving all kinds of LED strips. PWM-60 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%, with the fanless design, the entire series is able to operate for -40° C $\sim +85^{\circ}$ 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-60 is equipped with dimming function that varies the duty cycle of the output, providing great flexibility for LED strips applications.

Model Encoding



| 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 with DA type only) | In stock |

Applications

LED strip lighting

(except for DA-Type)

- Indoor LED lighting
- LED decorative lighting
- LED architecture lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

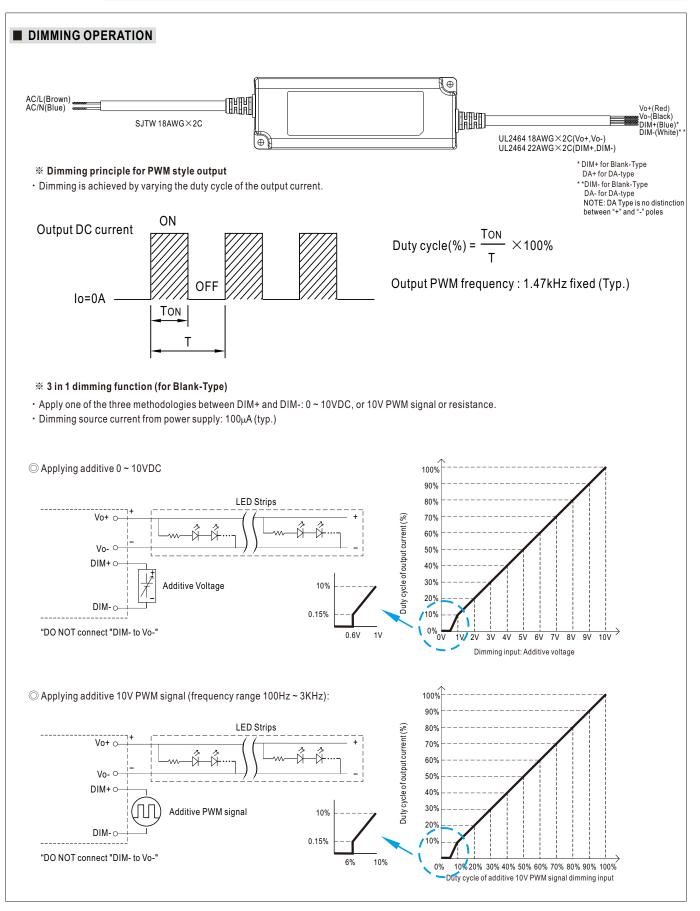




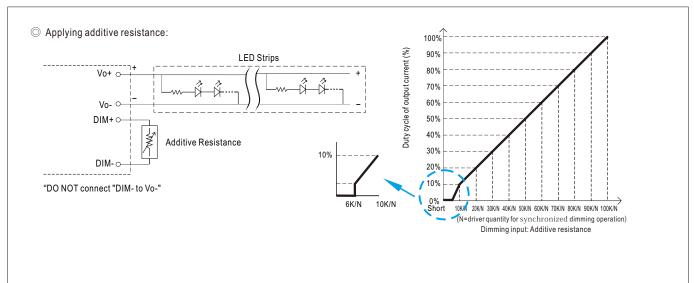
SPECIFICATION

| SAFETY STANDARDS Note:5 EN61347-2-13 independent,EN62384, IP67,BIS IS15885(for 12,24,48 Blank Type only), EAC TP TC 004, GB195 SAFETY & DALI STANDARDS Comply with IEC62386-101, 102, 207 for DA-Type only WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMC EMISSION Note:6 Compliance to EN55015, EN61000-3-2 Class C (@load ≥60%) ; EN61000-3-3, GB17743 and GB17625.1, EA EMC IMMUNITY Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547, light industry level (surge immunity Line-Line 2KV), EA MTBF 996K hrs min. Telcordia SR-332 (Bellcore) ; 271.03K hrs min. MIL-HDBK-217F (25°C) DIMENSION 150*53*35mm (L*W*H) PACKING 0.49Kg;30pcs/15.7Kg/1.0CUFT | PWM-60-12 | MODEL | | PWM-60-24 | PWM-60-36 | PWM-60-48 | |
|--|--|-------|--------------|------------------------|------------------------------------|-------------------------------------|--|
| OUTPUT RATED POWER 60W 60W 60.12W 60W DIMMING RANGE 0 - 100% 0 - 100% 0 | 12V | 1 | | 24V | 36V | 48V | |
| OUTPUT RATED POWER 60W 60W 60.12W 60W DIMMING RANGE 0 - 100% 0 - 100% 0 | 5A | 1 | | 2.5A | 1.67A | 1.25A | |
| FWM FREQUENCY (Typ.) 1.47kHz SETUP, RISE TIME Note.2 500ms, 80ms/115AC or 230VAC HOLD UP TIME (Typ.) 16ms/115VAC or 230VAC VOLTAGE RANGE Note.3 90 ~ 305VAC 0 127 ~ 431VDC (Please refer to 'STATIC CHARACTERISTIC' section) FREQUENCY RANCE 47 ~ 63Hz POWER FACTOR (Typ.) 16Pb 20%(@loadEd60%/115VAC, 29XVAC; @loadE75%/277VAC; INPUT FFEQUENCY Typ.) 26% 813% POWER FACTOR (Typ.) 26% 813% 90% 10AL HARMONIC DISTORTION TPD-20%(@loadE60%/115VAC, 29XVAC; @loadE75%/277VAC; (Please refer to 'TOTAL HARMONIC DISTORTION' section) 90% FFFCIENCY (Typ.) 0.6A / 115VAC 0.4A / 230VAC; @loadE75%/277VAC; INRUSH CURRENT (Typ.) 0.6A / 115VAC 0.4A / 230VAC; @loadE75%/277VAC; INRUSH CURRENT (Typ.) 0.6A / 115VAC 0.4A / 230VAC; @loadE75%/277VAC; INRUSH CURRENT (Typ.) 0.6A / 115VAC 0.4A / 230VAC; @loadE75%/277VAC; IEAKAGE CURRENT (S.N.O. 6FSUS on 16 9 units (circuit breaker of type D) / 16 units (circuit breaker of type C) at 230VAC; Per NEMA 410 MAX.CASETEMP 0.55m/ 277VAC - VERLOAD 108 - 120% rated output power VOVER LOAD | 60W | 1 | | 60W | 60.12W | 60W | |
| SETUP, RISE TIME Note2 500ms, 80ms/115AC or 230VAC HOLD UP TIME (Typ.) 16ms/115VAC or 230VAC VOLTAGE RANGE Note3 00 - 305VAC 127 - 431VDC (Please refer to "STATIC CHARACTERISTIC" section) FREQUENCY RANGE 47 - 63Hz POWER FACTOR (Typ.) P5-0.97/115VAC, P5-0.95/230VAC, PF>0.92/277VAC @ full load (Please refer to "DYCRE PACTOR (PF) 0.92/277VAC @ full load TOTAL HARMONIC DISTORTION THD < 20% (@ load260%/115VAC, 230VAC, @ load2675%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION" section) EFFICIENCY (Typ.) 0.8A / 115VAC 0.4A/230VAC 0.32A / 277VAC INPUT EFFICIENCY (Typ.) 0.8A / 115VAC 0.4A/230VAC 0.32A / 277VAC INVISH CURRENT (Typ.) 0.8A / 115VAC 0.4A/230VAC 0.32A / 277VAC NO OF DSUE OR 16A 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC 230VAC LEAKAGE CURRENT 40.55M / 277VAC 108 - 120% rated output power 0VER LOAD NOLOAD POWER CONSUMPTION 0.55W 108 - 120% rated output power 0VER VOLTAGE VOLER VOLTAGE Shut down of voltage, re-power on to recover 0VER VOLTAGE 54 - 60V OVER VOLTAGE Shut down of voltage, re-power on to recover | | | | | | | |
| SETUP, RISE TIME Note2 500ms, 80ms/115AC or 230VAC HOLD UP TIME (Typ.) 16ms/115VAC or 230VAC VOLTAGE RANGE Note3 00 - 305VAC 127 - 431VDC (Please refer to "STATIC CHARACTERISTIC" section) FREQUENCY RANGE 47 - 63Hz POWER FACTOR (Typ.) P5-0.97/115VAC, P5-0.95/230VAC, PF>0.92/277VAC @ full load (Please refer to "DYCRE PACTOR (PF) 0.92/277VAC @ full load TOTAL HARMONIC DISTORTION THD < 20% (@ load260%/115VAC, 230VAC, @ load2675%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION" section) EFFICIENCY (Typ.) 0.8A / 115VAC 0.4A/230VAC 0.32A / 277VAC INPUT EFFICIENCY (Typ.) 0.8A / 115VAC 0.4A/230VAC 0.32A / 277VAC INVISH CURRENT (Typ.) 0.8A / 115VAC 0.4A/230VAC 0.32A / 277VAC NO OF DSUE OR 16A 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC 230VAC LEAKAGE CURRENT 40.55M / 277VAC 108 - 120% rated output power 0VER LOAD NOLOAD POWER CONSUMPTION 0.55W 108 - 120% rated output power 0VER VOLTAGE VOLER VOLTAGE Shut down of voltage, re-power on to recover 0VER VOLTAGE 54 - 60V OVER VOLTAGE Shut down of voltage, re-power on to recover | | | | | | | |
| HOLD UP TIME (Typ.) 16ms/115VAC or 230VAC VOLTAGE RANGE Not.3 0 - 305VAC 127 - 431VDC FREQUENCY RANGE 47 - 63Hz POWER FACTOR (Typ.) (Please refer to "STATIC CHARACTERISTIC" section) TOTAL HARMONIC DISTORTION (Please refer to "TOTAL HARMONIC DISTORTION" section) TOTAL HARMONIC DISTORTION HOL 20V(@load2669%/177VAC) (Please refer to "TOTAL HARMONIC DISTORTION" section) EFFICIENCY (Typ.) 89% 89% 90% 90% AC CURRENT (Typ.) COLD START 50A(Willowick 20VAC) 0.32A / 277VAC INRUSH CURRENT (Typ.) COLD START 50A(Willowick 20VAC) 0.32A / 277VAC MAX. NO. of PSUs on 16A CIRCUIT BREAKER 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC VER ROTECINO 60× 54 - 60V SHORT CIRCUIT Shuld down of voltage, re-power on to recover VER VOLTAGE 10a - 120% rated output power 41 - 46V 54 - 60V Shuld down of voltage, re-power on to recover 41 - 46V 54 - 60V 54 - 60V Shuld down of voltage, re-power on to recover VER VOLTAGE 15 - 17V 28 - 34V 41 - 46V 54 - 60V | | | | | | | |
| VOLTAGE RANGE Note.3 90 - 305VAC 127 - 431VDC (Please refer to "STATIC CHARACTERISTIC" section) FREQUENCY RANGE 47 - 63Hz POWER FACTOR (Typ.) PF-0.97/115VAC, PF-0.95/230VAC, PF-0.92/277VAC @ full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) TOTAL HARMONIC DISTORTION THD× 20%(@load260%/115VAC, 230VAC; @load275%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION" section) EFFICIENCY (Typ.) 86% 89% 90% 90% AC CURRENT (Typ.) 0.8A / 115VAC 0.4A / 230VAC 0.32A / 277VAC INRUSH CURRENT (Typ.) 0.8A / 115VAC 0.4A / 230VAC 0.32A / 277VAC INRUSH CURRENT (Typ.) 0.8A / 115VAC 0.4A / 230VAC 0.32A / 277VAC INRUSH CURRENT (Typ.) 0.8A / 115VAC 0.4A / 230VAC 0.32A / 277VAC INRUSH CURRENT (Typ.) 0.5W 90% 90% 90% VERLOAD 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC E4050KC VER VOLTAGE 5M / 20% rated output power 0 0 / 25m / 20 / 25m / 210 / 20 / 20 / 20 / 20 / 20 / 20 / 2 | | | | | | | |
| INPUT POWER FACTOR (Typ.) PF-0.97/115VAC, PF-0.92/27VAC @ full load (Please refer to "POWER FACTOR (P) CHARACTERISTIC" section) TOTAL HARMONIC DISTORTION (Please refer to "POWER FACTOR (P) CHARACTERISTIC" section) Implementation (Please refer to "POWER FACTOR (P) CHARACTERISTIC" section) EFFICIENCY (Typ.) 86% 89% 90% 90% AC CURRENT (Typ.) 0.8A/115VAC 0.42/230VAC 0.32A/277VAC INRUSH CURRENT (Typ.) 0.8A/115VAC 0.42/230VAC 0.32A/277VAC MAX. NO. of PSUS on 16A CIRCUIT BREAKER 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC, Per NEMA 410 MAX. NO. of PSUS on 16A CIRCUIT BREAKER 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC, Per NEMA 410 MAX. NO. of PSUS on 16A CIRCUIT BREAKER 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC MAX. NO. of PSUS on 16A CIRCUIT BREAKER 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC POTECION 40.54 DOW 0.55 AC VERLOAD 108 - 120% rated output power 104 - 46V 54 - 60V MAX. NO. of PSUS SETTION 108 - 120% rated output power 14 - 46V 54 - 60V MAX. TOR CIRCUIT 55 - 70V< | 90 ~ 305VAC 127 ~ 431VDC | | | | | | |
| INPUT (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) ITAL HARMONIC DISTORTION (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) ITAL HARMONIC DISTORTION (Please refer to "TOTAL HARMONIC DISTORTION" section) EFFICIENCY (Typ.) 66% 89% 90% 90% AC CURRENT (Typ.) 0.8A / 115VAC 0.4A / 230VAC 0.32A / 277VAC INSUBI CURRENT (Typ.) COLD START 50A(twidth=270xs measured at 50% (peak) at 230VAC; Per NEMA 410 MAX. NO. of PSUS on 16A 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC; INSUBI CURRENT (Typ.) COLD START 50A(twidth=270xs measured at 50% (peak) at 230VAC; Per NEMA 410 MAX. NO. of PSUS on 16A 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC INSUB CURRENT CO25mA / 277VAC NOLAD POWER CONSUMPTION 0.5W INSUE (circuit breaker of type C) at 230VAC INSUE (Circuit breaker of type C) at 230VAC PROTECTION OVER LEAAGE 0.9W ret doubput power INSUE (circuit breaker of type C) at 230VAC INSUE (Circuit breaker of type C) at 230VAC INSUE (Circuit breaker of type C) at 230VAC PROTECTION OVER VOLTAGE 15 - 17V 28 - 34V 41 - 46V 54 - 60V SHORT CIRCU | 47 ~ 63Hz | | | | | | |
| INPUT INPUT <t< th=""><th colspan="6"></th></t<> | | | | | | | |
| INPUT AC CURRENT (Typ.) 0.8A / 115VAC 0.4A / 230VAC 0.32A / 277VAC INRUSH CURRENT (Typ.) COLD START 50A(twidth=270, as measured at 50% lipeak) at 230VAC; Per NEMA 410 MAX, NO, of PSUs on 16A CIRCUIT BREAKER 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC LEAKAGE CURRENT <0.25mA / 277VAC NOL0AD POWER CONSUMPTION <0.5W OVERLOAD 108 ~ 120% rated output power Hiccup mode, recovers automatically after fault condition is removed SHORT CIRCUIT Shut down o/p voltage, re-power on to recover VOER VOLTAGE 15 ~ 17V 28 ~ 34V 41 ~ 46V 54 ~ 60V OVER VOLTAGE Shut down o/p voltage, re-power on to recover 54 ~ 60V OVER VOLTAGE Shut down o/p voltage, re-power on to recover 54 ~ 60V WORKING TEMP. Tcase=+85 C WORKING TEMP. Tcase=+85 C WORKING HUMIDITY 20 ~ 95% RH non-condensing 350AGE TEMP, HUMIDITY 40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/C (0 ~ 50°C) WIRSTON 10 ~ 500Hz, 50 12min./1cycle, period for 72min.each along X, Y, Z axes SAFETY STANDARDS Notes Sch1347.2+13 independent_ENK2384, IP67, BIS 15156861607 12.24, 48 Biank Type only), EAC TP T C 04, GB195 | (Please refer to "TOTAL HARMONIC DISTORTION" section) | | | | | | |
| INRUSH CURRENT (Typ.) COLD START 50A(twidth=270µs measured at 50% lpeak) at 230VAC; Per NEMA 410 MAX. NO. of PSUs on 16A CIRCUIT BREAKER 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC LEAKAGE CURRENT <0.25mA / 277VAC NO LOAD POWER CONSUMPTION <0.5W OVERLOAD 108 - 120% rated output power Hiccup mode, recovers automatically after fault condition is removed SHORT CIRCUIT Shut down o/p voltage, re-power on to recover OVER VOLTAGE 15 - 17V 28 - 34V 41 - 46V 54 - 60V OVER TEMPERATURE Shut down o/p voltage, re-power on to recover 54 - 60V OVER TEMPERATURE Shut down o/p voltage, re-power on to recover OVER TEMPERATURE Shut down o/p voltage, re-power on to recover MAX. CASE TEMP. Tcase=+48°C WORKING HUMIDITY 20 - 95% RH non-condensing STORAGE TEMP., HUMIDITY 40 - +80°C (10 - 95% RH TEMP. COEFFICIENT ±0.03%/C (0 - 50°C) | 86% | | | 89% | 90% | 90% | |
| MAX. NO. of PSUs on 16A CIRCUIT BREAKER 9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC LEAKAGE CURRENT <0.25mA / 277VAC NO LOAD POWER CONSUMPTION <0.5W OVERLOAD 108 ~ 120% rated output power Hiccup mode, recovers automatically after fault condition is removed SHORT CIRCUIT Shut down o/p voltage, re-power on to recover OVER VOLTAGE 15 ~ 17V 28 ~ 34V 41 ~ 46V 54 ~ 60V OVER VOLTAGE Shut down o/p voltage, re-power on to recover 54 ~ 60V OVER VOLTAGE Shut down o/p voltage, re-power on to recover 54 ~ 60V MAX. CASE TEMP. Tcase=40 ~ +85°C (Please refer to * OUTPUT LOAD vs TEMPERATURE* section) MAX. CASE TEMP. MAX. CASE TEMP. Tcase=45°C WORKING HUMIDITY 20 ~ 95% RH VORKING HUMIDITY 20 ~ 95% RH 10 ~ 500°C (0 ~ 50°C) VIBRATION VIBRATION 10 ~ 500Hz, 5G 12mi./1cycle, period for 72min. each along X, Y, Z axes 108/50(type "HL") (except for DA-Type), UL879(for 12V,24V Blank Type only), EAC TP TC 004, GB195 SAFETY ADARDS Comply with IEC62386-101, 102, 207 for 12V,24V Blank Type only), EAC TP TC 004, GB195 GB19510.14 approved; Design refer to EN60335-1 DALI STANDARDS Comply with IEC62386-101, 102, 207 for 12 | 0.8A / 115VAC 0 | | C 0.4A/2 | 230VAC 0.32A/ | 277VAC | | |
| CIRCUIT BREAKER 9 Units (circuit breaker of type B) / 16 Units (circuit breaker of type C) at 230VAC LEAKAGE CURRENT <0.25mA/277VAC N0 L0AD POWER CONSUMPTION <0.5W PROTECTION 708 ~ 120% rated output power GVERLOAD 108 ~ 120% rated output power VERLOAD 108 ~ 120% rated output power OVER LOAD 108 ~ 120% rated output power VERTOR Short CIRCUIT SHORT CIRCUIT Shut down o/p voltage, re-power on to recover OVER VOLTAGE Shut down o/p voltage, re-power on to recover OVER TEMPERATURE Shut down o/p voltage, re-power on to recover MAX. CASE TEMP. Tcase=+45°C WORKING HUMIDITY 20 - 95% RH non-condensing STORAGE TEMP, HUMIDITY 20 - 95% RH non-condensing STORAGE TEMP, HUMIDITY 40 ~ 480°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 56 12min./1cycle, period for 72min. each along X, Y, Z axes UMP50(type HL") (xccept for DA-Type), UL879 (for 12V.24V Blank Type only), CSAC22.2 No.250.13.12; ENEC SAFETY STANDARDS Notes EN61347.275 KVAC INDIATION 10 ~ 00HX int IEG62386-101, 102.207 for DA-Type o | COLD START 50A(twidth=270µs measured at 50% Ipeak) at 230VAC; Per NEMA 410 | | | | | | |
| NO LOAD POWER CONSUMPTION <0.5W | | | | | | | |
| Average 108 ~ 120% rated output power OVERLOAD 108 ~ 120% rated output power Hiccup mode, recovers automatically after fault condition is removed SHORT CIRCUIT Shut down o/p voltage, re-power on to recover OVER VOLTAGE 15 ~ 17V 28 ~ 34V 41 ~ 46V 54 ~ 60V OVER VOLTAGE Shut down o/p voltage, re-power on to recover 41 ~ 46V 54 ~ 60V OVER TEMPERATURE Shut down o/p voltage, re-power on to recover 54 ~ 60V WORKING TEMP. Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) MAX. CASE TEMP. MAX. CASE TEMP. Tcase=+85°C WORKING HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP, HUMIDITY 20 ~ 95% RH ± 0.03%/C (0 ~ 50°C) WORKING TEMP. VIBRATION 10 ~ 500Hz, 5G 12min.1cycle, period for 72min. each along X, Y, Z axes U8750 (type "HL") (except for DA-Type). UL879 (for 12V.24V Blank Type only), CSA C22.2 No. 250.13-12; ENEC SEB (588) (for 12.2,44 Blank Type only), CSA C22.2 No. 250.13-12; ENEC SEB (51347-6134 for 24.5134, FeB (51345-62.515 EN61040-53-515 EN61040-53-51 SAFETY STANDARDS Comply with IEC62386-101, 102, 207 for DA-Type only WITHSTAND VOLTAGE MIPS DALI STANDARDS Compliance to EN5015, EN61000-3-2 Class C (@load≥60%); EN6 | <0.25mA/277VAC | | | | | | |
| OVERLOAD Hiccup mode, recovers automatically after fault condition is removed SHORT CIRCUIT Shut down o/p voltage, re-power on to recover OVER VOLTAGE 15 ~ 17 V 28 ~ 34 V 41 ~ 46 V 54 ~ 60 V OVER VOLTAGE Shut down o/p voltage, re-power on to recover 41 ~ 46 V 54 ~ 60 V OVER TEMPERATURE Shut down o/p voltage, re-power on to recover Vore voltage 54 ~ 60 V WORKING TEMP. Tease=40 ~ +85°C (Please refer to * 0UTPUT LOAD vs TEMPERATURE" section) Max. CASE TEMP. Tease=+85°C WORKING HUMIDITY 20 ~ 95% RH non-condensing Vore voltage, re-power on to recover Vore voltage, re-power on to recover WORKING TEMP. Tease=+85°C Working HumiDity 40 ~ +80°C, 10 ~ 95% RH TEMP. CoEFFICIENT ±0.03%/C (0 ~ 50°C) Villastation Voltases VIBRATION 10 ~ 500Hz, 5G 12min/1cycle, period for 72min. each along X, Y, Z axes Villasto Voltage Bip510.14 approved, Design refer to EN60335-1 DALI STANDARDS Compliance to EN5015 (EN6100-3-2 Class Cl@load > 60%); EN6100-3-3, GB17743 and GB17625 .1, EA SAFETY STANDARDS Compliance to EN5015, EN61000-3-2 Class Cl@load > 60%); EN61000-3-3, GB17743 and GB17625 .1, EA EMC EMISSION Note.6 | <0.5W | | | | | | |
| Bit Protection Hiccup mode, recovers automatically after fault condition is removed PROTECTION SHORT CIRCUIT Shut down o/p voltage, re-power on to recover OVER VOLTAGE 15 ~ 17V 28 ~ 34V 41 ~ 46V 54 ~ 60V OVER VOLTAGE Shut down o/p voltage, re-power on to recover 41 ~ 46V 54 ~ 60V OVER TEMPERATURE Shut down o/p voltage, re-power on to recover V V 54 ~ 60V MAX. CASE TEMP. Tcase=-40 ~ +85°C (Please refer to ° OUTPUT LOAD vs TEMPERATURE' section) MAX. CASE TEMP. Tcase=+40 ~ +85°C (Please refer to ° OUTPUT LOAD vs TEMPERATURE' section) MAX. CASE TEMP. Tcase=+40 ~ +85°C (Please refer to ° OUTPUT LOAD vs TEMPERATURE' section) MAX. CASE TEMP. Tcase=+40 ~ +85°C (Please refer to ° OUTPUT LOAD vs TEMPERATURE' section) MORKING HUMIDITY 20 ~ 95% RH non-condensing V V V V StoRAGE TEMP, HUMIDITY 40 ~ +80°C, 10 ~ 95% RH U V V V V VIBRATION 10 ~ 500Hz, 5G 12min.1rcycle, period for 72min. each along X, Y, Z axes V V V V SAFETY STANDARDS Notes Compliance to EN6035-1 UR>07/P O: 3.75KVAC V <th< th=""><th colspan="5">108 ~ 120% rated output power</th></th<> | 108 ~ 120% rated output power | | | | | | |
| PROTECTION OVER VOLTAGE 15 ~ 17V 28 ~ 34V 41 ~ 46V 54 ~ 60V OVER VOLTAGE Shut down o/p voltage, re-power on to recover OVER TEMPERATURE Shut down o/p voltage, re-power on to recover WORKING TEMP. Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) MAX. CASE TEMP. Tcase=+85°C WORKING HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP, HUMIDITY -40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 56 12min./1cycle, period for 72min. each along X, Y, Z axes VURTSOURDEN bots SAFETY STANDARDS hots SAFETY STANDARDS hots Ul9750(type"HL") (except for DA-Type), UL879 (for 12V,24V Blank Type only), CSA C22.2 No.250.13-12; ENEC EN61347-2-13 independent,EN62384, IP67,BIS IS15885 (for 12,24,48 Blank Type only), EAC TP TC 004, GB195 GB19510.14 approved, Design refer to EN60335-1 DALI STANDARDS hots Comply with IEC62386-101, 102, 207 for DA-Type only WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION hots.6 Compliance to EN5015, EN61000-3-2 Class C (@load ≥60%); EN61000-3-3, GB17743 and GB17625.1, EA EMC IMMUNITY Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547, light industry level (sur | Hiccup mode, recovers automatically after fault condition is removed | | | | | | |
| OVER VOLTAGE Shut down o/p voltage, re-power on to recover OVER TEMPERATURE Shut down o/p voltage, re-power on to recover WORKING TEMP. Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) MAX. CASE TEMP. Tcase=+85°C WORKING HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP, HUMIDITY 40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ± 0.03%/C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS Notes U8750(type"HL") (except for DA-Type), UL879(for 12V,24V Blank Type only), CSA C22.2 No.250.13-12; ENEC SAFETY STANDARDS Notes Comply with IEC62386-101, 102, 207 for DA-Type only WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:3.75KVAC EMC EMISSION Note.6 Compliance to EN50015, EN61000-3-2 Class C (@load≧60%); EN61000-3-3, GB17743 and GB17625.1, EA EMC IMMUNITY Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547, light industry level (surge immunity Line-Line 2KV), EA THE CHINGIN MESION 150*53*35mm (L*W*H) PACKING 0.49Kg; 30pcs/15.7Kg/1.0CUFT | | | | | | | |
| Shut down o/p voitage, re-power on to recover OVER TEMPERATURE Shut down o/p voitage, re-power on to recover WORKING TEMP. Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) MAX. CASE TEMP. Tcase=+85°C WORKING HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP, HUMIDITY -40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ± 0.03%/C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes BAFETY STANDARDS Notes U8750 (type "HL") (except for DA-Type), UL879 (for 12V/24V Blank Type only), CSA C22.2 No. 250.13-12; ENEC EN61347-2-13 independent,EN62384, IP67,BIS IS15885 (for 12,24,48 Blank Type only), EAC TP TC 004, GB195 GB19510.14 approved; Design refer to EN60335-1 DALI STANDARDS Comply with IEC62386-101, 102, 207 for DA-Type only WITHSTAND VOLTAGE //P-O/P:3.75KVAC ISOLATION RESISTANCE //P-O/P:100M Ohms / 500VDC / 25°C/70% RH EMC EMISSION Note.6 Compliance to EN55015, EN61000-3-2 Class C (@load≥60%); EN61000-3-3,GB17743 and GB17625.1,EA OTHERS MTBF 996K hrs min. Telcordia SR-332 (Bellcore); 271.03K hrs min. MIL-HDBK-217F (25°C) DIMENSION 150*S3*35mm (L*W*H) 996K hrs min. Telcordia SR-332 (Bellcore); 271.03K hrs min. MIL-HDBK-217F (25°C) OHA | 15 ~ 17V | | | 28 ~ 34V | 41 ~ 46V | 54 ~ 60V | |
| WORKING TEMP. Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) MAX. CASE TEMP. Tcase=+85°C WORKING HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP., HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP., HUMIDITY 40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes Ul8750(type "HL") (except for DA-Type), UL879(for 12V,24V Blank Type only), CSA C22.2 No. 250.13-12; ENEC EN61347-2-13 independent, EN62384, IP67, BIS IS15885(for 12,24,48 Blank Type only), EAC TP TC 004, GB195° GB19510.14 approved; Design refer to EN60335-1 DALI STANDARDS Comply with IEC62386-101, 102, 207 for DA-Type only WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC MTBF OpeK hrs min. Telcordia SR-332 (Bellcore) ; 271.03K hrs min. MIL-HDBK-217F (25°C) OTHERS MTBF 996K hrs min. Telcordia SR-332 (Bellcore) ; 271.03K hrs min. MIL-HDBK-217F (25°C) DIMENSION 150*53*35mm (L*W*H) Ackling 0.49Kg;30pcs/15.7Kg/1.0CUFT | Shut down o/p voltage, re-power on to recover | | | | | | |
| MAX. CASE TEMP. Tcase=+85°C WORKING HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION Comply with IEC62386-101, 102, 207 for DA-Type only VITHSTAND VOLTAGE I/P-O/P:3.75KVAC< | Shut down o/p voltage, re-power on to recover | | | | | | |
| WORKING HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS Note.5 UI8750(type "HL") (except for DA-Type), UL879 (for 12V,24V Blank Type only), CSA C22.2 No. 250.13.12; ENEC DALI STANDARDS Comply with IEC62386-101, 102, 207 for DA-Type only WITHSTAND VOLTAGE I/P-O/P:3.75KVAC IP-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMC EMISSION Note.6 Compliance to EN55015, EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3,GB17743 and GB17625.1,EA EMC IMMUNITY Compliance to EN55015, EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3,GB17743 and GB17625.1,EA EMC IMMUNITY Compliance to EN55015, EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3,GB17743 and GB17625.1,EA MTBF 996K hrs min. Telcordia SR-332 (Bellcore); 271.03K hrs min. MIL-HDBK-217F (25°C) DIMENSION 150*53*35mm (L*W*H) PACKING 0.49Kg;30pcs/15.7Kg/1.0CUFT | Tcase=-40 ~ +85 $^\circ\mathrm{C}$ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section) | | | | | | |
| ENVIRONMENT STORAGE TEMP, HUMIDITY -40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION UI8750(type "HL") (except for DA-Type).UL879(for 12V,24V Blank Type only), CSA C22.2 No. 250.13-12; ENEC ENCIDENT DALI STANDARDS Comply with IEC62386-101, 102, 207 for DA-Type only WITHSTAND VOLTAGE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Line 2KV),EA | Tcase=+85℃ | | | | | | |
| STORAGE TEMP, HOMIDITY 40 × 480 °C, 10 × 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes U8750(type "HL") (except for DA-Type), UL879(for 12V,24V Blank Type only), CSA C22.2 No. 250.13-12; ENEC SAFETY & U8750(type "HL") (except for DA-Type), UL879(for 12V,24V Blank Type only), EAC TP TC 004, GB195: GB19510.14 approved; Design refer to EN60335-1 DALI STANDARDS Comply with IEC62386-101, 102, 207 for DA-Type only WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/70% RH EMC EMC EMISSION Note.6 Compliance to EN55015, EN61000-3-2 Class C (@load≧60%); EN61000-3-3, GB17743 and GB17625.1, EA OTHERS MTBF 996K hrs min. Telcordia SR-332 (Bellcore); 271.03K hrs min. MIL-HDBK-217F (25°C) DIMENSION 150*53*35mm (L*W*H) PACKING PACKING 0.49Kg;30pcs/15.7Kg/1.0CUFT | · | | | | | | |
| VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes VIBRATION UI8750(type "HL") (except for DA-Type), UL879(for 12V,24V Blank Type only), CSA C22.2 No. 250.13-12; ENEC SAFETY STANDARDS UI8750(type "HL") (except for DA-Type), UL879(for 12V,24V Blank Type only), CSA C22.2 No. 250.13-12; ENEC SAFETY STANDARDS Comply with IEC62386-101, 102, 207 for DA-Type only WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMC EMISSION Note.6 Compliance to EN55015, EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3, GB17743 and GB17625.1, EA MTBF 996K hrs min. Telcordia SR-332 (Bellcore); 271.03K hrs min. MIL-HDBK-217F (25°C) DIMENSION 150*53*35mm (L*W*H) AcKing PACKING 0.49Kg;30pcs/15.7Kg/1.0CUFT | ′-40~+80°C, 10~95% RH | | | | | | |
| SAFETY STANDARDS Note:5 Ul8750(type "HL")(except for DA-Type), UL879(for 12V,24V Blank Type only), CSA C22.2 No. 250.13-12; ENECC EN61347-2-13 independent,EN62384, IP67,BIS IS15885(for 12,24,48 Blank Type only), EAC TP TC 004, GB1957 SAFETY 8 DALI STANDARDS Comply with IEC62386-101, 102, 207 for DA-Type only WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Note:6 Compliance to EN55015, EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3, GB17743 and GB17625.1, EA MTBF 996K hrs min. Telcordia SR-332 (Bellcore); 271.03K hrs min. MIL-HDBK-217F (25°C) DIMENSION 150*53*35mm (L*W*H) PACKING 0.49Kg;30pcs/15.7Kg/1.0CUFT | ±0.03%/°C (0~50°C) | | | | | | |
| SAFETY STANDARDS Note:5 EN61347-2-13 independent,EN62384, IP67,BIS IS15885(for 12,24,48 Blank Type only), EAC TP TC 004, GB1957 (B19510.14 approved; Design refer to EN60335-1) DALI STANDARDS Comply with IEC62386-101, 102, 207 for DA-Type only WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Note:6 Compliance to EN55015, EN61000-3-2 Class C (@load ≥60%) ; EN61000-3-3, GB17743 and GB17625.1, EA MTBF 996K hrs min. Telcordia SR-332 (Bellcore) ; 271.03K hrs min. MIL-HDBK-217F (25°C) DIMENSION 150*53*35mm (L*W*H) PACKING 0.49Kg;30pcs/15.7Kg/1.0CUFT | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | | | |
| SAFETY& WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/70% RH EMC EMC EMISSION Note.6 Compliance to EN55015, EN61000-3-2 Class C (@load ≥ 60%) ; EN61000-3-3, GB17743 and GB17625.1, EA EMC IMMUNITY Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547, light industry level (surge immunity Line-Line 2KV), EA OTHERS MTBF 996K hrs min. Telcordia SR-332 (Bellcore) ; 271.03K hrs min. MIL-HDBK-217F (25°C) DIMENSION 150*53*35mm (L*W*H) 0.49Kg;30pcs/15.7Kg/1.0CUFT | | | | | | | |
| SAFETY& EMC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Note.6 Compliance to EN55015, EN61000-3-2 Class C (@load ≥ 60%) ; EN61000-3-3,GB17743 and GB17625.1,EA EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Line 2KV),EA OTHERS MTBF 996K hrs min. Telcordia SR-332 (Bellcore) ; 271.03K hrs min. MIL-HDBK-217F (25°C) DIMENSION 150*53*35mm (L*W*H) 150*53*35mm (L*W*H) PACKING 0.49Kg;30pcs/15.7Kg/1.0CUFT | Comply with IEC62386-101, 102, 207 for DA-Type only | | | | | | |
| EMC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/70% RH EMC EMISSION Note.6 Compliance to EN55015, EN61000-3-2 Class C (@load ≥ 60%) ; EN61000-3-3,GB17743 and GB17625.1,EA EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Line 2KV),EA MTBF 996K hrs min. Telcordia SR-332 (Bellcore) ; 271.03K hrs min. MIL-HDBK-217F (25°C) DIMENSION 150*53*35mm (L*W*H) PACKING 0.49Kg;30pcs/15.7Kg/1.0CUFT | I/P-O/P:3.75KVAC | | | | | | |
| EMC EMISSION Note.6 Compliance to EN55015, EN61000-3-2 Class C (@load ≥ 60%); EN61000-3-3, GB17743 and GB17625.1, EA EMC IMMUNITY Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547, light industry level (surge immunity Line-Line 2KV), EA MTBF 996K hrs min. Telcordia SR-332 (Bellcore); 271.03K hrs min. MIL-HDBK-217F (25°C) DIMENSION 150*53*35mm (L*W*H) O.49Kg;30pcs/15.7Kg/1.0CUFT Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61000-3-3, GB17743 and GB17625.1, EA | I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH | | | | | | |
| MTBF 996K hrs min. Telcordia SR-332 (Bellcore); 271.03K hrs min. MIL-HDBK-217F (25°C) DIMENSION 150*53*35mm (L*W*H) | Compliance to EN55015, EN61000-3-2 Class C (@load≧60%) ; EN61000-3-3,GB17743 and GB17625.1,EAC TP TC 020 | | | | | | |
| OTHERS DIMENSION 150*53*35mm (L*W*H) PACKING 0.49Kg;30pcs/15.7Kg/1.0CUFT | Compliance to EN610 | | EN61000-4-2 | 2,3,4,5,6,8,11; EN6154 | 7, light industry level (surge imn | nunity Line-Line 2KV),EAC TP TC 020 | |
| PACKING 0.49Kg;30pcs/15.7Kg/1.0CUFT | 996K hrs min. Telc | - | . Telcordia | SR-332 (Bellcore) ; | 271.03K hrs min. MIL-HI | DBK-217F (25°C) | |
| | 150*53*35mm (L*W*H | | n (L*W*H) | | | | |
| NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. | 0.49Kg;30pcs/15.7Kg | ſ | /15.7Kg/1.0C | UFT | | | |
| 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. 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. 4. 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. 5. 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 6. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 7. 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 20 8. 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 | | | | | | | |



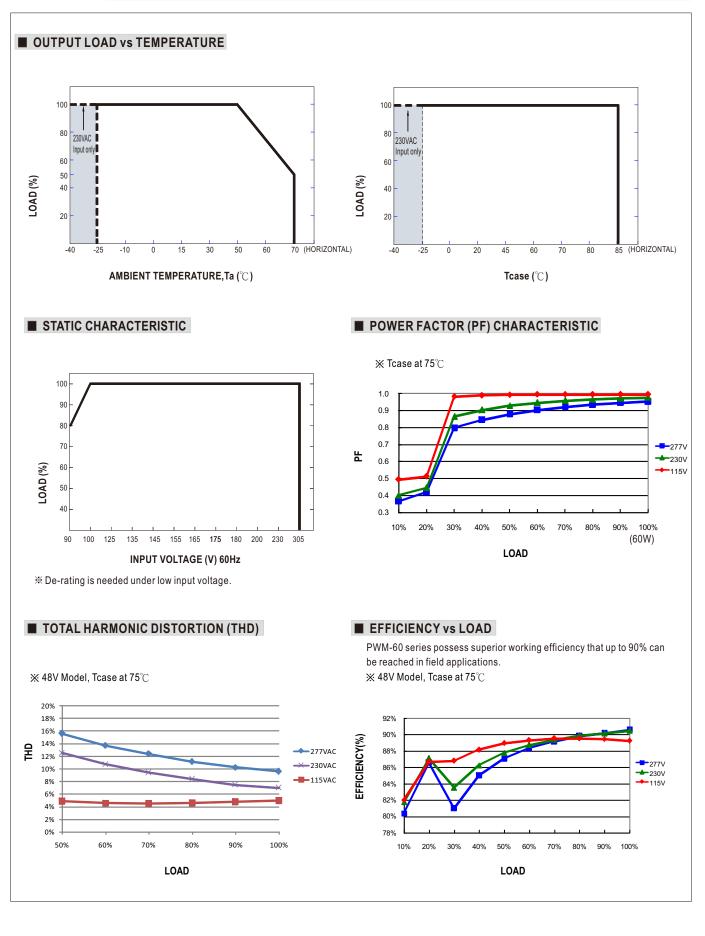






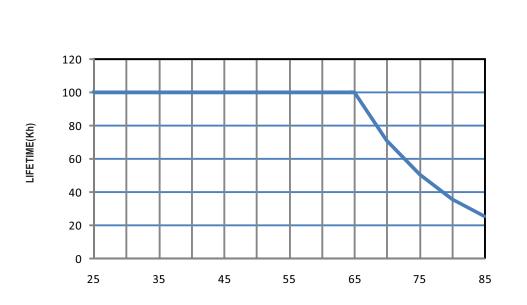
- Note : 1. Min. duty cycle of output current is about 6% and the output current is not defined when 0%< Iout<6%. 2. The duty cycle of output current could drop down to 0% when dimming input is about 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.
 - ※ DALI Interface (primary side; for DA-Type)
 - Apply DALI signal between DA+ and DA-.
 - DALI protocol comprises 16 groups and 64 addresses.
 - First step is fixed at 0.2% of output





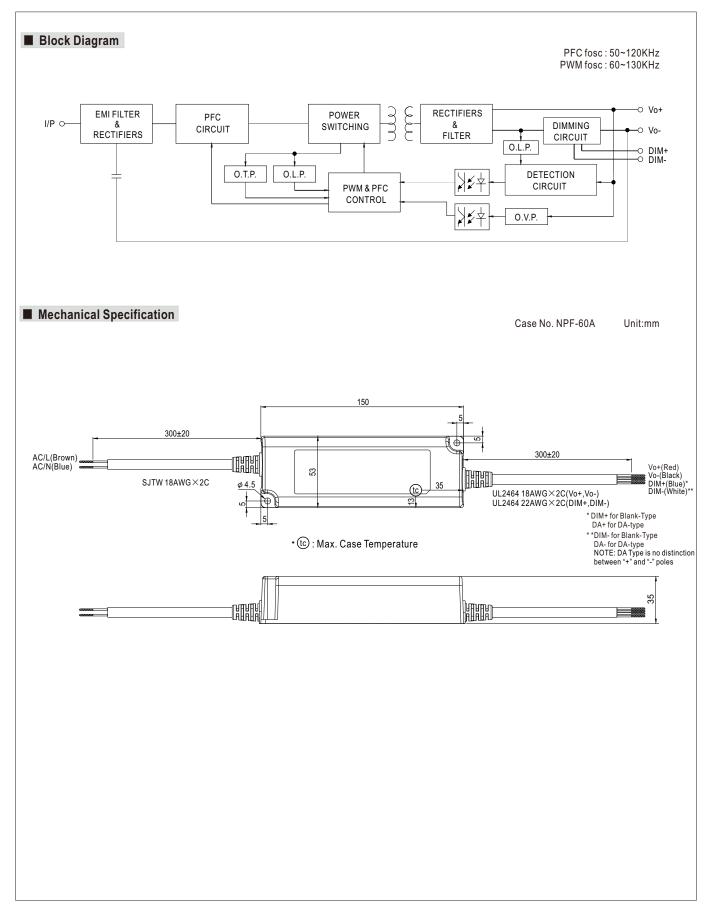


LIFE TIME



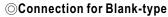
Tcase ($^\circ\! \mathbb{C}$)

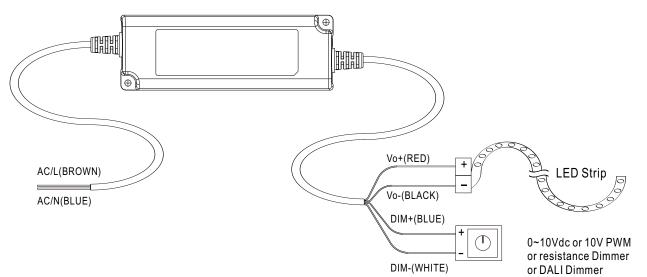






Installation Manual





○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 Vo-".
- 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.
- For more information about installation, Please refer to : http://www.meanwell.com/manual.html for details.