



Fuente de alimentación de tensión constante.
Funciona desde 90 ~ 305VAC.

Consigue una alta eficiencia sin ventilador, hasta un 94% gracias a un diseño optimizado y es capaz de funcionar desde -40°C ~ +90°C.

7
Warranty
Years

12-24 V
DC

IP20

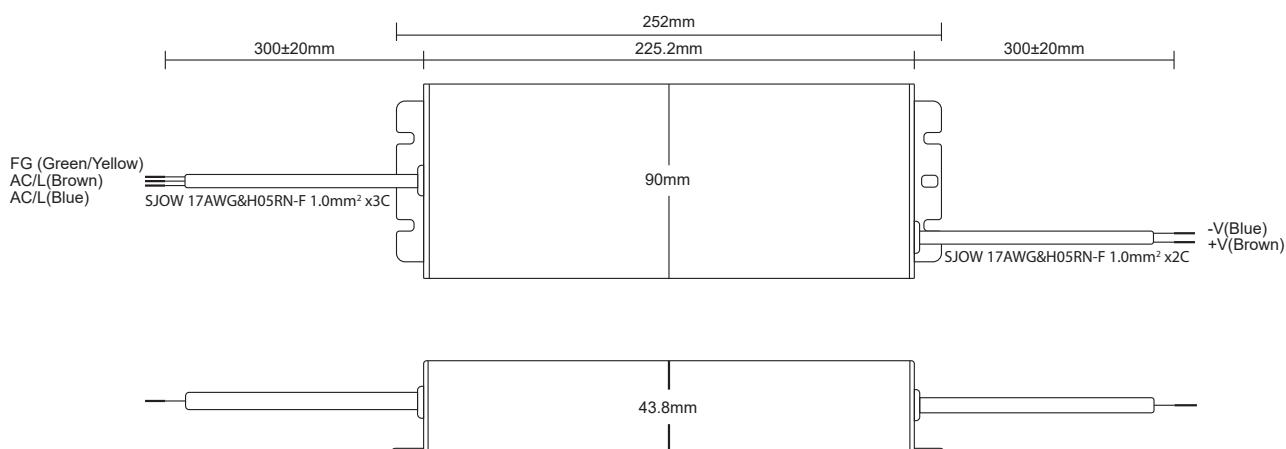


Constant voltage power supply.

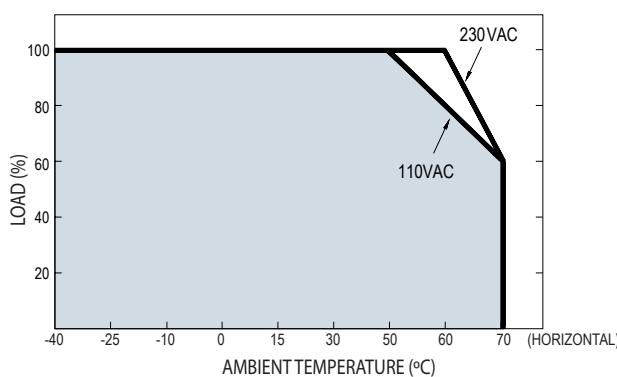
Operates from 90 ~ 305VAC.

It achieves high efficiency without fan, up to 94% to an optimized design and is capable of operating from -40°C ~ +90°C.

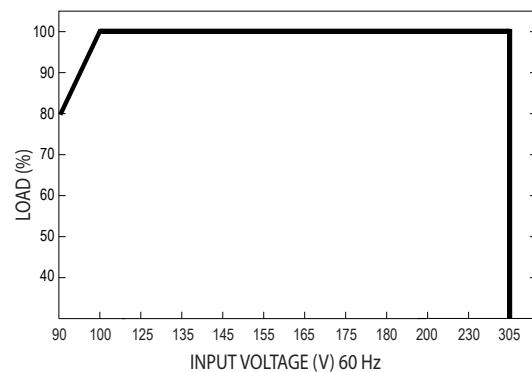
• Medidas / Dimensions



• Carga de salida vs temperatura / Output load vs temperature



• Características estáticas / Static characteristics



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• Características / Characteristics

| MODEL | FC320-12 | FC320-24 |
|--------------|---|---|
| OUTPUT | DC VOLTAGE | 12V |
| | CONSTANT CURRENT (4) | 6 ~ 12V |
| | RATED CURRENT | 22A |
| | RATED POWER | 264W |
| | RIPLLE & NOISE (max.) (2) | 150mVp-p |
| | VOLTAGE TOLERANCE (3) | ±3.0% |
| | LINE REGULATION | ±0.5% |
| | LOAD REGULATION | ±2.0% ±0.5% |
| | SETUP, RISE TIME (6) | 2500ms, 80ms / 115VAC 500ms, 80ms / 230VAC at full load |
| INPUT | HOLD UP TIME | 15ms / 115VAC, 230VAC |
| | VOLTAGE RANGE (5) | 90 ~ 305VAC 127 ~ 431VDC |
| | FREQUENCY RANGE | 47 ~ 63Hz |
| | POWER FACTOR | PF≥0.98/115VAC, PF≥0.95/230VAC @ full load |
| | TOTALLY HARMONIC DISTORTION | THD< 20% (@ load≥50% / 115VAC,230VAC; @ load≥75% / 277VAC) |
| | EFFICIENCY (230Vac) | 91% |
| | EFFICIENCY (277Vac) | 91.5% |
| | AC CURRENT | 4A / 115VAC 2A / 230VAC 1.2A / 277VAC |
| | INRUSH CURRENT | COLD START 70A(twidth=1010μ s measured at 50% Ipeak) at 230VAC; Per NEMA 410 |
| PROTECTION | MAX. No. of PSUs on 16A CIRCUIT BREAKER | 1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC |
| | LEAKAGE CURRENT | <0.75mA / 277VCA |
| | OVER CURRENT (4) | 95 ~ 108% |
| | SHORT CIRCUIT | Constant current limiting, recovers automatically after fault condition is removed |
| | OVER VOLTAGE | Hiccup mode, recovers automatically after fault condition is removed |
| | OVER TEMPERATURE | 14 ~ 17V 27 ~ 33V |
| | WORKING TEMP. | Shut down and latch off o/p voltage, re-power on to recover |
| | MAX. CASE TEMP. | Shut down o/p voltage, recovers automatically after temperature goes down |
| | ENVIRONMENT | Tcase= -40 ~ +90°C |
| SAFETY & EMC | WORKING HUMIDITY | Tcase= +90°C |
| | STORAGE TEMP., HUMIDITY | 20 ~ 95% RH non-condensing |
| | TEMP. COEFFICIENT | -40 ~ +80°C, 10 ~ 95% RH |
| | VIBRATION | ±0.03%/°C (0 ~ 50°C) |
| | SAFETY STANDARDS | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes |
| | WITHSTAND VOLTAGE | UL8750(type "HL"), CSA C22.2 No. 250.0-08; EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13, EN62384 independent; GB19510.1,GB19510.14; IP65 or IP67; J61347-1, J61347-2-13, EAC TP TC 004; KC61347-1, KC61347-2-13 approved |
| | ISOLATION RESISTANCE | I/P-O/P: 3.75KVAC I/P-FG: 2KVAC O/P-FG: 1.5KVAC |
| | EMC EMISSION | I/P-O/P, I/P-FG, O/P-FG: 100M Ohms /500VDC / 25°C / 70% RH |
| | EMC IMMUNITY | Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥ 50%) ; EN61000-3-3, GB17743 and GB17625.1, EAC TP TC 020 |



| MODEL | FC320-12 | FC320-24 |
|--------|------------------------------|---|
| OTHERS | MTBF DIMENSION PACKING | 157.1K hrs min. MIL-HDBK-217F (25°C) 252*90*43.8mm 1.88Kg; 8pcs/16Kg/0.92CUFT |

- NOTE**
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 3. Tolerance: includes set up tolerance, line regulation and load regulation.
 4. Please refer to "DRIVING METHODS OF LED MODULE"
 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" section details.
 6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
 7. 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.
 8. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.
 9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75°C or less.
 10. The ambient temperature derating of 3.5°C/100m with fanless models and of 5°C/100m with fan models for operating altitude higher than 2000m(6500ft).



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