



Product Datasheet



■ Features :

- Constant current mode power supply
- Universal AC input / Full range
- Withstand 265VAC Surge input for 60 seconds
- Protections: Short circuit / Over voltage
- Fully isolated plastic case
- Small and compact size
- Cooling by free air convection
- IP20 design 100% full load burn-in test
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)

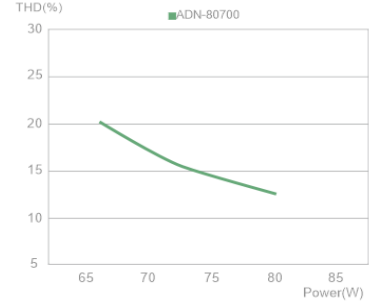
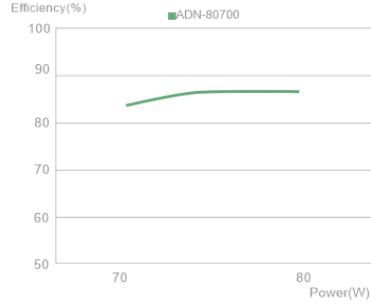
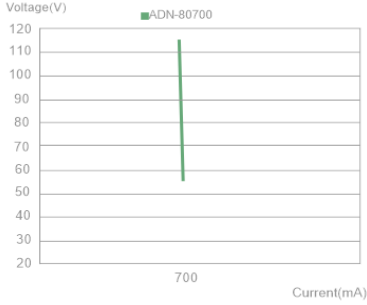
ADN-80700

80W Single Output Constant Current

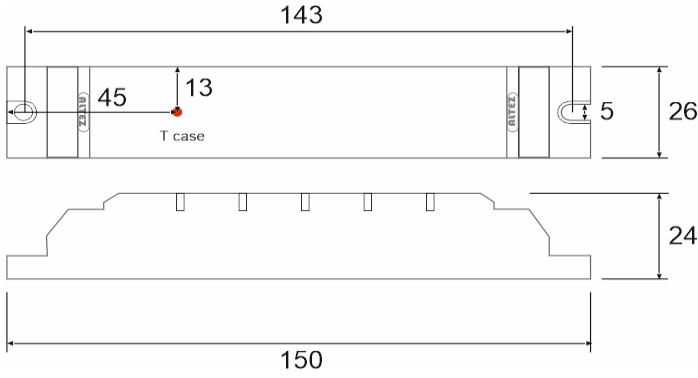
ELECTRICAL SPECIFICATIONS

| MODEL | ADN-80700 | |
|-----------------------|--|--|
| OUTPUT | RATED CURRENT | 700mA |
| | NOMINAL DC VOLTAGE RANGE | 57-114V |
| | RATED POWER | 80W |
| | RIPPLE & NOISE (max.) Note.2 | 350mVp-p |
| | VOLTAGE TOLERANCE Note.3 | ±5.0% |
| | CURRENT ACCURACY | ±8.0% |
| | LINE REGULATION | ±1.0% |
| | LOAD REGULATION | ±3.0% |
| | SETUP, RISE TIME | 1500ms, 40ms full load at 230VAC |
| HOLD UP TIME (Typ.) | 20ms full load at 230VAC | |
| INPUT | VOLTAGE RANGE | 90 ~ 264VAC |
| | FREQUENCY RANGE | 47 ~ 63Hz |
| | EFFICIENCY | 88% |
| | NO-LOAD POWER | < 0.5W at 230VAC, typical |
| | POWER LOSS | 10W full load at 230VAC, input power 90W max. |
| | NOMINAL CURRENT | 0.099A full load, at 230VAC 50Hz |
| | POWER FACTOR | 0.97 full load, at 230VAC 50Hz |
| | TOTAL HARMONIC DISTORTION (THD) | <20% full load, at 230VAC 50Hz |
| | INRUSH CURRENT | <45A (twidth=490 s measured at 50% Ipeak) at 230VAC 50Hz |
| | MAX. No.Of PSUs on 16A CIRCUIT BREAKER | 17 units (circuit breaker of type B) / 28 units (circuit breaker of type C) at 230VAC 50Hz |
| PROTECTION | PROTECTION CLASS | Class II, Suitable for class I luminaires |
| | LEAKAGE CURRENT | 0.25mA at 230VAC output floating |
| | OVERLOAD | Above 5% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed |
| ENVIRONMENT | OVER VOLTAGE | 148V Protection type : Shut off o/p voltage, clamping by zener diode |
| | OVER TEMPERATURE | Hiccup mode, recovers automatically after temperature goes down |
| | WORKING TEMP. | -30°C . . 70°C (Refer to "Derating Curve") |
| SAFETY & EMC (Note 4) | WORKING HUMIDITY | 20 ~ 75% RH non-condensing |
| | STORAGE TEMP., HUMIDITY | -40°C . . 80°C, 10 ~ 95% RH |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) |
| | RATING | Indoor |
| | IP RATING | IP20 |
| | MAINS SWITCHING CYCLES | > 100.000 |
| | EXPECTED LIFETIME | 35.000hrs tc Max =75°C, 10% failure rate, 50.000hrs tc Max =65°C, 10% failure rate IEC60068-2-6 TEST Fc (Sinusoidal), IEC60068-2-27 Test Ea and guidance: Shock, IEC60068-2-29 Basic Test Part2: Bump 10 ~ 500Hz, 2G 10min./cycle, period for 60min. Each along X, Y, Z axes |
| | VIBRATION | |
| PACKAGE | SAFETY STANDARDS | EN61347-1, Lamp controlgear - Part1:General and safety requirements |
| | SAFETY STANDARDS | EN61347-2-13, Lamp controlgear - Part2-13: Particular requirements for dc or ac supplied electronic control gear for Led modules |
| | WITHSTAND VOLTAGE | I/P-O/P:500VAC |
| | PERFORMANCE REQUIREMENTS | EN62384, DC or AC supplied electronic control gear for LED modules |
| | ISOLATION RESISTANCE | I/P - O/P > 7M Ohms / 500VDC / 25°C / 70% RH |
| | EMC EMISSION | EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class A, EN61000-3-3 |
| NOTE | EMC IMMUNITY | EN61547, EN61000-4-2,3,4,5,6,8,11, EN55024 |
| | DIMENSION | Lenght 212mm, With 33mm, Height 23mm |
| | MOUNTING HOLE SPACING | Lenght 203mm, With 17mm |
| | WEIGHT&PACKING | 125gr. 70pcs/13.0Kgs/0.71CUFT |
| NOTE | CASING MATERIAL | Plastic |
| | 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. 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. | |

Diagrams



Mecanical Specification



Wiring Diagram

