





SELV IP42 (EUK

Applications

 Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.7)

■ GTIN CODE

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

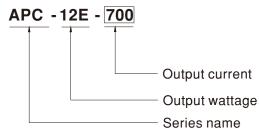
Features

- · Constant current design
- · Protections:Short circuit / Over voltage
- · Fully isolated plastic case
- · Small and compact size
- Cooling by free air convection
- · Class Ⅱ power unit, no FG
- No load power consumption <0.5W
- · IP42 design
- Suitable for LED lighting and moving sign applications
- · 100% full load burn-in test
- Low cost / High reliability
- · 2 years warranty

■ Description

APC-12E series is one 12W AC/DC constant current mode single output LED power supply. It accepts input 180~264VAC and provides two models with different output current, 350mA and 700mA, respectively, that the small wattage LED applications employ the most frequently. Exploiting Class II design (without FG pin) and adopting the 94V-0 flame retardant plastic enclosure, APC-12E ideally fits the entry-level LED applications.

■ Model Encoding



12W Single Output Switching Power Supply

APC-12E series

SPECIFICATION

| MODEL | | APC-12E-350 | APC-12E-700 | |
|-----------------------------|--|---|------------------------------------|--|
| | RATED CURRENT | 350mA | 700mA | |
| ОИТРИТ | DC VOLTAGE RANGE | 9~36V | 9~18V | |
| | RATED POWER | 12.6W | 12.6W | |
| | RIPPLE & NOISE (max.)Note.2 | 300mVp-p | 250mVp-p | |
| | VOLTAGE TOLERANCE Note.3 | | | |
| | CURRENT ACCURACY | ±8.0% | | |
| | LINE REGULATION | ±1.0% | | |
| | LOAD REGULATION | ±3.0% | | |
| | SETUP, RISE TIME | 500ms, 180ms / 230VAC | | |
| | HOLD UP TIME (Typ.) | 20ms/230VAC at full load | | |
| INPUT | VOLTAGE RANGE Note.4 | 180 ~ 264VAC 254 ~ 370VDC | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | |
| | POWER FACTOR (Typ.) | PF>0.5/230VAC at full load | | |
| | EFFICIENCY(Typ.) | 81% | 79% | |
| | AC CURRENT | 0.2A/230VAC | | |
| | INRUSH CURRENT(Typ.) | COLD START 70A(twidth=120µs measured at 50% Ipeak) at 230VAC | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER | 17 units (circuit breaker of type B) / 29 units (circuit breaker of type C) at 230VAC | | |
| | LEAKAGE CURRENT | 0.25mA / 240VAC | | |
| PROTECTION | | 39.6~ 46.8V | 20.7~ 24.3V | |
| | OVER VOLTAGE | Protection type : Shut off o/p voltage, clamping by zener diode | | |
| ENVIRONMENT | WORKING TEMP. | -30 ~ 70°C (Refer to "Derating Curve") | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH | | |
| | TEMP. COEFFICIENT | ±0.2%/°C (0 ~ 50°C) | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | |
| SAFETY & EMC (Note 5) | SAFETY STANDARDS | IP42, BS EN/EN 62368-1 approved | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3.75KVAC | | |
| | ISOLATION RESISTANCE | I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH | | |
| | EMC EMISSION | Compliance to BS EN/EN55032,BS EN/EN61000-3-2,BS EN/EN61000-3-3 | | |
| | EMC IMMUNITY | Compliance to BS EN/EN55035,BS EN/EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV) | | |
| OTHERS | MTBF | 6112.3K hrs min. Telcordia SR-332 (Bellcore); 1013 | 3.6K hrs min. MIL-HDBK-217F (25°C) | |
| | DIMENSION | 77*40*29(L*W*H) | | |
| | PACKING | 0.08Kg; 120pcs/11.8Kg/1.06CUFT | | |
| NOTE | | 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. | | | |
| | · · | tolerance, line regulation and load regulation. Inder low input voltage. Please check the static characteristic for more details. | | |
| | | sidered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the | | |
| | · · | tion, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. | | |
| | - | nbient 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). | | |
| | This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/XLG series are recommended.)For any application note and IP water proof function installation caution, please refer our user manual before using. | | | |
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