





#### Features

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

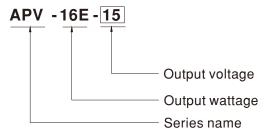
# Applications

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

### Description

APV-16E series is one 16W AC/DC constant voltage mode single output LED power supply. It accepts input 180~264VAC and provides four models with different output voltage, 5V, 12V, 15V,24V, 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, APV-16E ideally fits the entry-level LED applications.

## **■** Model Encoding



# 16W Single Output Switching Power Supply

# APV-16E series

#### **SPECIFICATION**

DC VOLTAGE	MODEL		APV-16E-5	APV-16E-12	APV-16E-15	APV-16E-24	
RATED CURRENT		DC VOLTAGE	5V	12V	15V	24V	
CURRENT RANGE   0 - 2.6A	ОИТРИТ				-		
NATED POWER   13W   15W   15W   15W   16.08W   15W   15W   16.08W   15W   15D   15			· ·	-			
RIPPLE & NOISE					· ·		
VOLTAGE TOLERANCE Notes   25.0%   1			100mVp-p	120mVp-p	120mVp-p	150mVp-p	
LINE REGULATION							
LOAD REGULATION   ±2.0%   SETUP, RISE TIME   Motes   500ms, 30ms / 230VAC at full load							
HOLD UP TIME (Typ-)   20ms/230VAC at full load   180 ~ 264VAC   254 ~ 370VDC   FREQUENCY RANGE   47 ~ 6314Z   POWER FACTOR (Typ-)   P5-0.5/230VAC at full load   EFFICIENCY (Typ-)   75%   79%   80%   82%   82%   AC CURRENT   0.3A/230VAC   T5%   79%   80%   82%   AC CURRENT   0.3A/230VAC   MAX. No. of PSUs on 16A CIRCUIT BREAKER   13 units (circuit breaker of type B) / 22 units (circuit breaker of type C) at 230VAC   ADOVE   A		LOAD REGULATION	±2.0%				
HOLD UP TIME (Typ.)   20ms/230VAC at full load   VOLTAGE RANGE   Note   180 ~ 264VAC   254 ~ 370VDC		SETUP, RISE TIME Note.6					
FREQUENCY RANGE   47 - 63Hz   POWER FACTOR (typ.)   PF-0.5/330VAC at full load   EFFICIENCY (typ.)   75%   75%   79%   80%   82%   AC CURRENT   0.3A/230VAC   INRUSH CURRENT(typ.)   COLD START 50A(twidth=185µs measured at 50% lpeak) at 230VAC   INRUSH CURRENT(typ.)   COLD START 50A(twidth=185µs measured at 50% lpeak) at 230VAC   INRUSH CURRENT(typ.)   Above 105% rated output power   Protection type : Hiccup mode, recovers automatically after fault condition is removed   Protection type : Hiccup mode, recovers automatically after fault condition is removed   5.75 - 6.75V   13.8 - 16V   17.5 - 21V   27.6 - 32.4V   Protection type : Shut off 0/p voltage, clamping by zener diode   WORKING TEMP, 30 - 470°C (Refer to "Derating Curve")   WORKING HUMIDITY   20 - 90% RH non-condensing   STORAGE TEMP, HUMIDITY   20 - 90% RH non-condensing   STORAGE TEMP, HUMIDITY   40 - 480°C, 10 - 95% RH   TEMP. COEFFICIENT   40.3%/*C (0 - 50°C)   VIBRATION   10 - 500Hz, 2G 10min/1cycle, period for 60min, each along X, Y, Z axes   SAFETY STANDARDS   ENEC ENG13A7-1, EN61347-2-13, EN62384, EAC TP TC 004, IP42 approved   WITHSTAND VOLTAGE   IP-0/P)-3100M Ohms / 500VDC / 25°C / 70% RH   EMC EMISSION   Compliance to EN61547, EN61000-4-2, 34, 5, 6, 8, 11; light industry level(surge 2KV), criteria A, EAC TP TC 02   EMC IMMUNITY   Compliance to EN61547, EN61000-4-2, 34, 5, 6, 8, 11; light industry level(surge 2KV), criteria A, EAC TP TC 02   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All par			*				
FREQUENCY RANGE   47 - 63Hz   POWER FACTOR (typ.)   PF-0.5/330VAC at full load   EFFICIENCY (typ.)   75%   75%   79%   80%   82%   AC CURRENT   0.3A/230VAC   INRUSH CURRENT(typ.)   COLD START 50A(twidth=185µs measured at 50% lpeak) at 230VAC   INRUSH CURRENT(typ.)   COLD START 50A(twidth=185µs measured at 50% lpeak) at 230VAC   INRUSH CURRENT(typ.)   Above 105% rated output power   Protection type : Hiccup mode, recovers automatically after fault condition is removed   Protection type : Hiccup mode, recovers automatically after fault condition is removed   5.75 - 6.75V   13.8 - 16V   17.5 - 21V   27.6 - 32.4V   Protection type : Shut off 0/p voltage, clamping by zener diode   WORKING TEMP, 30 - 470°C (Refer to "Derating Curve")   WORKING HUMIDITY   20 - 90% RH non-condensing   STORAGE TEMP, HUMIDITY   20 - 90% RH non-condensing   STORAGE TEMP, HUMIDITY   40 - 480°C, 10 - 95% RH   TEMP. COEFFICIENT   40.3%/*C (0 - 50°C)   VIBRATION   10 - 500Hz, 2G 10min/1cycle, period for 60min, each along X, Y, Z axes   SAFETY STANDARDS   ENEC ENG13A7-1, EN61347-2-13, EN62384, EAC TP TC 004, IP42 approved   WITHSTAND VOLTAGE   IP-0/P)-3100M Ohms / 500VDC / 25°C / 70% RH   EMC EMISSION   Compliance to EN61547, EN61000-4-2, 34, 5, 6, 8, 11; light industry level(surge 2KV), criteria A, EAC TP TC 02   EMC IMMUNITY   Compliance to EN61547, EN61000-4-2, 34, 5, 6, 8, 11; light industry level(surge 2KV), criteria A, EAC TP TC 02   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All parameters NOT specially mentioned are measured at 230VAC   1. All par		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
INPUT   AC CURRENT   0.3A/230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak) at 230VAC   1.0CLD START 50A(twidth=185µs measured at 50%   peak 50A(twidth=185µs measured at 50A(twidt	INPUT						
AC CURRENT (Typ.) COLD START 50A(twidth=185µs measured at 50% lipeak) at 230VAC  MAX. No. of PSUs on 16A CICRUIT BREAKER  LEAKAGE CURRENT  0.25mA / 240VAC  Above 105% rated output power  Protection type: Hiccup mode, recovers automatically after fault condition is removed  5.75 - 6.75V   13.8 - 16V   17.5 - 21V   27.6 - 32.4V  Protection type: Shut off 0/p voltage, clamping by zener diode  WORKING TEMP30 - +70°C (Refer to "Derating Curve")  WORKING HUMIDITY 20 - 90% RH non-condensing  STORAGE TEMP, HUMIDITY 40 - +80°C, 10 - 95% RH  TEMP. COEFFICIENT		POWER FACTOR (Typ.)					
INRUSH CURRENT(ryp.)  COLD START SOA(twidth=185µs measured at 50% [peak) at 230VAC  MAX. No. of PSUs on 16A CIRCUIT BREAKER  LEAKAGE CURRENT  0.25mA/240VAC  OVER LOAD  PROTECTION  OVER LOAD  Protection type: Hiccup mode, recovers automatically after fault condition is removed  Protection type: Hiccup mode, recovers automatically after fault condition is removed  Protection type: Shut off o/p voltage, clamping by zener diode  WORKING TEMP.  WORKING TEMP.  WORKING TEMP.  WORKING HUMIDITY  20 ~ 90% RH non-condensing  STORAGE TEMP, HUMIDITY  40 ~ 80°C, 10 ~ 95% RH  TEMP. COEFFICIENT  10.03%/°C (0 ~ 50°C)  VIBRATION  10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  SAFETY & SAFETY STANDARDS  ENCE CENG1347-1, ENG1347-2-13, EN62384, EAC TP TC 004, IP42 approved  WITHSTAND VOLTAGE  IPO-O/P:375KVAC  SOLATION RESISTANCE  I/PO-O/P:375KVAC  SOLATION RESISTANCE  I/PO-O/P:375KVAC  Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020  EMC IMMUNITY  Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020  EMC IMMUNITY  Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020  EMC IMMUNITY  Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020  EMC IMMUNITY  Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020  EMC IMMUNITY  Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020  EMC IMMUNITY  DIMENSION  77*40*29mm (L*W*H)  PACKING  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. Derating may be needed under low input voltage. Please check the static characteristics for more details.  5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected to compl				79%	80%	82%	
MAX. No. of PSUs on 16A CIRCUIT BREAKER  LEAKAGE CURRENT  0.25mA/240VAC  Above 105% rated output power  Protection type: Hiccup mode, recovers automatically after fault condition is removed  5.75 ~ 6.75V   13.8 ~ 16V   17.5 ~ 21V   27.6 ~ 32.4V  Protection type: Hiccup mode, recovers automatically after fault condition is removed  5.75 ~ 6.75V   13.8 ~ 16V   17.5 ~ 21V   27.6 ~ 32.4V  Protection type: Shut off o/p voltage, clamping by zener diode  WORKING TEMP.		AC CURRENT	0.3A/230VAC				
MAX. No. of PSUs on 16A CIRCUIT BREAKER  LEAKAGE CURRENT  0.25mA / 240VAC  Above 105% rated output power  Protection bype: Hiccup mode, recovers automatically after fault condition is removed  5.75 ~ 6.75V   13.8 ~ 16V   17.5 ~ 21V   27.6 ~ 32.4V  Protection type: Shut off o/p voltage, clamping by zener diode  WORKING TEMP.  WORKING HUMIDITY  20 ~ 90% RH non-condensing  SAFETY & SAFETY STANDARDS  BENEC EN61347-1, EN61347-2-13, EN62384, EAC TP TC 004, IP42 approved  WITHSTAND VOLTAGE  WITHSTAND VOLTAGE  BENEC EMBISSION  Compliance to EN61547, EN61000-3-2 Class A, EN61000-3-3, EAC TP TC 020  EMC IMMUNITY  Compliance to EN61547, EN61000-4-2, 3, 4, 5, 6, 8, 11; light industry level (surge 2KV), criteria A, EAC TP TC 02  MTBF  1145,7K hrs min. MIL-HDBK-217F (25°C)  MIBRSION  TOTHERS  NOTE  NOTE  1. All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 220MFL of by using a 12" invisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected in combination with final equipment. Since EMC performance will be affected in combination with final equipment. Since EMC performance will be affected in combination with final equipments. Since EMC performance will be affected in combination with final equipments. Since EMC performance will be affected in combination with final equipments. Since EMC performance will be affected in combination with final equipment since EMC performance will be affected in combination with final equipment since EMC performance will be affected in combination with final equipment since EMC performance will be affected in combination with final equipment will be operated in c		INRUSH CURRENT(Typ.)					
Above 105% rated output power			13 units (circuit breaker of type B) / 22 units (circuit breaker of type C) at 230VAC				
Protection type: Hiccup mode, recovers automatically after fault condition is removed    Protection type: Shut off o/p voltage, clamping by zener diode   VORKING TEMP.   -30 ~ +70°C (Refer to "Derating Curve")   WORKING HUMIDITY   -20 ~ 90% RH non-condensing		LEAKAGE CURRENT	0.25mA / 240VAC				
PROTECTION  OVER VOLTAGE    5.75 ~ 6.75V   13.8 ~ 16V   17.5 ~ 21V   27.6 ~ 32.4V     Protection type : Shut off o/p voltage, clamping by zener diode	PROTECTION	OVER LOAD	·				
WORKING TEMP.   -30 ~ +70 °C (Refer to "Derating Curve")			**			27.6 ~ 32.4V	
WORKING HUMIDITY  20 ~ 90% RH non-condensing  STORAGE TEMP., HUMIDITY  40 ~ +80°C, 10 ~ 95% RH  TEMP. COEFFICIENT  ±0.03%/°C (0 ~ 50°C)  VIBRATION  10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  SAFETY STANDARDS  ENEC EN61347-1, EN61347-2-13, EN62384, EAC TP TC 004, IP42 approved  WITHSTAND VOLTAGE  I/P-O/P:>.75KVAC  ISOLATION RESISTANCE  I/P-O/P:>.100M Ohms / 500VDC / 25°C / 70% RH  EMC EMISSION  Compliance to EN55015, EN61000-3-2 Class A, EN61000-3-3, EAC TP TC 020  EMC IMMUNITY  Compliance to EN61547, EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A, EAC TP TC 02  MTBF  1145.7K hrs min. MIL-HDBK-217F (25°C)  DIMENSION  77*40*29mm (L*W*H)  PACKING  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. Derating may be needed under low input voltage. Please check the static characteristics for more details.  5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected to complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.  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 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 8. For any application note and IP water proof function installation caution, please refer our user manual before using.		OVER VOLTAGE	Protection type : Shut off o/p		diode		
ENVIRONMENT  STORAGE TEMP., HUMIDITY  -40 ~ +80°C, 10 ~ 95% RH  TEMP. COEFFICIENT		WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C)  VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  SAFETY STANDARDS ENEC EN61347-1, EN61347-2-13, EN62384, EAC TP TC 004, IP42 approved  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 EMISSION Compliance to EN55015, EN61000-3-2 Class A, EN61000-3-3, EAC TP TC 020  EMC IMMUNITY Compliance to EN61547, EN61000-4-2, 3, 4, 5, 6, 8, 11; light industry level(surge 2KV), criteria A, EAC TP TC 02  MTBF 1145.7K hrs min. MIL-HDBK-217F (25°C)  DIMENSION 77*40*29mm (L*W*H)  PACKING 0.1Kg; 120pcs/14Kg/1.06CUFT  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. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected to complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 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 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) 8. For any application note and IP water proof function installation caution, please refer our user manual before using.	ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
TEMP. COEFFICIENT		STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH				
SAFETY & EMC  SAFETY STANDARDS  ENCE EN61347-1, EN61347-2-13, EN62384, EAC TP TC 004, IP42 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 EN55015, EN61000-3-2 Class A, EN61000-3-3, EAC TP TC 020  EMC IMMUNITY  Compliance to EN61547, EN61000-4-2, 3, 4, 5, 6, 8, 11; light industry level(surge 2KV), criteria A, EAC TP TC 02  MTBF  1145.7K hrs min. MIL-HDBK-217F (25°C)  DIMENSION  77*40*29mm (L*W*H)  PACKING  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. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected to complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 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 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 8. For any application note and IP water proof function installation caution, please refer our user manual before using.		TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
WITHSTAND VOLTAGE I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH  EMC  EMC EMISSION Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020  EMC IMMUNITY Compliance to EN61547,EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A, EAC TP TC 02  MTBF 1145.7K hrs min. MIL-HDBK-217F (25°C)  DIMENSION 77*40*29mm (L*W*H)  PACKING 0.1Kg; 120pcs/14Kg/1.06CUFT  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. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected in complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 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 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 8. For any application note and IP water proof function installation caution, please refer our user manual before using.		VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC    ISOLATION RESISTANCE   I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH		SAFETY STANDARDS	ENEC EN61347-1, EN61347-2-13, EN62384, EAC TP TC 004, IP42 approved				
EMC EMISSION Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020  EMC IMMUNITY Compliance to EN61547,EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A, EAC TP TC 02  MTBF 1145.7K hrs min. MIL-HDBK-217F (25°C)  DIMENSION 77*40*29mm (L*W*H)  PACKING 0.1Kg; 120pcs/14Kg/1.06CUFT  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. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected to complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 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 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). 8. For any application note and IP water proof function installation caution, please refer our user manual before using.		WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
EMC IMMUNITY  Compliance to EN35015,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020  MTBF  1145.7K hrs min. MIL-HDBK-217F (25°C)  DIMENSION  77*40*29mm (L*W*H)  PACKING  0.1Kg; 120pcs/14Kg/1.06CUFT  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. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected to complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 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 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(6500ff 8. For any application note and IP water proof function installation caution, please refer our user manual before using.		ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH				
NOTE    MTBF		EMC EMISSION	Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020				
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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. Derating may be needed under low input voltage. Please check the static characteristics for more details.  5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected to complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.  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 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(6500ff 8. For any application note and IP water proof function installation caution, please refer our user manual before using.	OTHERS	MTBF	1145.7K hrs min. MIL-HDBK-217F (25°C)				
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