

#### Features

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

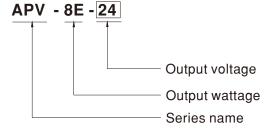
# Applications

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

### ■ Description

APV-8E series is one 8W AC/DC constant voltage mode single output LED power supply. It accepts input 180~264VAC and provides three models with different output voltage, 5V, 12V, 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-8E ideally fits the entry-level LED applications.

## **■** Model Encoding





### SPECIFICATION

TED POWER PLE & NOISE (max.) Note.2 LTAGE TOLERANCE Note.3 NE REGULATION AD REGULATION		12V 0.67A 0 ~ 0.67A 8.04W 250mVp-p	24V 0.34A 0 ~ 0.34A 8.16W 300mVp-p		
TED CURRENT RRENT RANGE TED POWER PLE & NOISE (max.) Note.2 LTAGE TOLERANCE Note.3 NE REGULATION AD REGULATION TUP, RISE TIME LD UP TIME (Typ.) LTAGE RANGE Note.4	1.4A 0 ~ 1.4A 7W 250mVp-p ±5.0% ±1.0% ±2.0% 500ms, 30ms / 230VAC	0.67A 0 ~ 0.67A 8.04W	0.34A 0 ~ 0.34A 8.16W		
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LTAGE TOLERANCE Note.3 IE REGULATION AD REGULATION TUP, RISE TIME ILD UP TIME (Typ.) LTAGE RANGE Note.4	±5.0% ±1.0% ±2.0% 500ms, 30ms / 230VAC	230πνμ-μ	Зоонгур-р		
NE REGULATION AD REGULATION TUP, RISE TIME LD UP TIME (Typ.) LTAGE RANGE Note.4	±1.0% ±2.0% 500ms, 30ms / 230VAC				
AD REGULATION TUP, RISE TIME ILD UP TIME (Typ.) LTAGE RANGE Note.4	±2.0% 500ms, 30ms / 230VAC				
TUP, RISE TIME LD UP TIME (Typ.) LTAGE RANGE Note.4	500ms, 30ms / 230VAC		***		
LTAGE RANGE Note.4	:				
LTAGE RANGE Note.4	ZOTTIS/ZOO VAO at Tali Toad	·			
	180 ~ 264VAC 254 ~ 370VDC (Note.6)				
	47 ~ 63Hz				
WER FACTOR (Typ.)	PF>0.5/230VAC at full load				
		77.5%	78.5%		
CURRENT		111070	1.0.0%		
( ), ,	0.25mA / 240VAC				
ORT CIRCUIT					
OVER LOAD					
	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16V	27.6 ~ 32.4V		
	Protection type : Shut off o/p voltage,	clamping by zener diode			
RKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
RKING HUMIDITY	20 ~ 90% RH non-condensing				
DRAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
MP. COEFFICIENT	±0.03%/°C (0~45°C)				
BRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
FETY STANDARDS	ENEC EN61347-1,EN61347-2-13,EN62384, EAC TP TC 004 approved; design refer to UL8750,CSA C22.2 No.250.0-08; EN60950-1				
THSTAND VOLTAGE	I/P-O/P:3.75KVAC				
LATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH				
C EMISSION	Compliance to EN55015,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020				
C IMMUNITY	Compliance to EN61547,EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A, EAC TP TC 020				
BF	1631.5K hrs min. MIL-HDBK-217F (25°C)				
MENSION	60*30*23.5(L*W*H)				
CKING	0.05Kg; 144pcs/7.6Kg/0.70CUFT				
Ripple & noise are measure Tolerance: includes set up Derating may be needed to the power supply is consinguated by the complete in When applying DC voltage. The ambient temperature defor any application note and	red at 20MHz of bandwidth by using a p tolerance, line regulation and load regunder low input voltage. Please check the dered as a component that will be oper installation, the final equipment manuface for input, please connect the brown in perating of 3.5°C/1000m with fanless models the water proof function installation caution	12" twisted pair-wire terminated with a 0 gulation. he static characteristics for more details. rated in combination with final equipmenturers must re-qualify EMC Directive on put wire to the positive side whereas blus and of 5°C/1000m with fan models for op	t. Since EMC performance will be the complete installation again. The input wire to the negative side. The retaining altitude higher than 2000m(6500ft).		
FIGURE STATE OF THE STATE OF TH	CIENCY (Typ.)  URRENT SH CURRENT (Typ.)  KAGE CURRENT RT CIRCUIT R LOAD  R VOLTAGE  KING TEMP.  KING HUMIDITY AGE TEMP., HUMIDITY P. COEFFICIENT  ATION  TY STANDARDS  STAND VOLTAGE  ATION RESISTANCE  EMISSION  IMMUNITY  TO STAND (STANDARDS)  STAND VOLTAGE  ATION RESISTANCE  TO STAND (STANDARDS)  COEFFICIENT  ATION (STANDARDS)  TO STAND (STANDARDS)  TO STANDARDS  TO STANDARD	CIENCY (Typ.)  URRENT  0.15A/230VAC  SH CURRENT(Typ.)  COLD START 70A(twidth=120µs mean and seeded by the complete installation caution server.  CIENCY (Typ.)  74%  0.15A/230VAC  SH CURRENT  0.25mA / 240VAC  Hiccup mode, recovers automatically and and seeded by the complete installation, the final equipment manufact and posses.  A WOLTAGE  Above 105% rated output power Protection type: Hiccup mode, recovers at 5.75 ~ 6.75V  Protection type: Shut off o/p voltage, From the content of	CIENCY (Typ.)  74%  77.5%  URRENT  0.15A/230VAC  SH CURRENT(Typ.)  0.25mA / 240VAC  RT CIRCUIT  Hiccup mode, recovers automatically after fault condition is removed  Above 105% rated output power  Protection type: Hiccup mode, recovers automatically after fault condition is removed  R COAD  Above 105% rated output power  Protection type: Hiccup mode, recovers automatically after fault condition is removed  5.75 ~ 6.75V  13.8 ~ 16V  Protection type: Shut off o/p voltage, clamping by zener diode  KING TEMP.  30 ~ +70°C (Refer to "Derating Curve")  KING HUMIDITY  20 ~ 90% RH non-condensing  AGE TEMP, HUMIDITY  40 ~ +80°C, 10 ~ 95% RH  COEFFICIENT  40.03%/°C (0 ~ 45°C)  ATION  10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  ENEC EN61347-1, EN61347-2-13, EN62384, EAC TP TC 004 approved; design refer to UL8750, CSA C22.2 No.250.0-08; EN60950-1  STAND VOLTAGE  I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH  COmpliance to EN55015, EN61000-3-2 Class A, EN61000-3-3, EAC TP TC 02  IMMUNITY  Compliance to EN55015, EN61000-3-2 Class A, EN61000-3-3, EAC TP TC 02  IMMUNITY  Compliance to EN61547, EN61000-4-2, 3, 4, 5, 6, 8, 11; light industry level (surge 1631.5K hrs min. MIL-HDBK-217F (25°C)  NSION  60*30*23.5(L*W*H)  ING  0.05Kg; 144pcs/7.6Kg/0.70CUFT  parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient pole & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0 errance: includes set up tolerance, line regulation and load regulation.  rating may be needed under low input voltage. Please check the static characteristics for more details. e power supply is considered as a component that will be operated in combination with final equipment acted by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on ene applying DC voltage for input, please connect the brown input wire to the positive side whereas blu  a millor the province of the positive side whereas blu  a millor the province o		



