

E-Star Power Development Co., Ltd. (E-STAR)

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

12W LED Driver power supply < APV-12E





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
- · IP42 design
- · Suitable for LED lighting and moving sign applications
- · 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

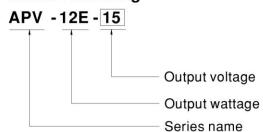
Applications

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

Description

APV-12E series is one 12W 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-12E ideally fits the entry-level LED applications.

■ Model Encoding





E-Star Power Development Co., Ltd. (E-STAR)

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City 22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

12W LED Driver power supply < APV-12E

SPECIFICATION

MODEL		APV-12E-5	APV-12E-12	APV-12E-15	APV-12E-24
ОИТРИТ	DC VOLTAGE	5V	12V	15V	24V
	RATED CURRENT	2A	1A	0.8A	0.5A
	CURRENT RANGE	0 ~ 2A	0 ~ 1A	0 ~ 0.8A	0 ~ 0.5A
	RATED POWER	10W	12W	12W	12W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	120mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%			
	LINE REGULATION	±1.0%			
	LOAD REGULATION	±2.0%			
	SETUP, RISE TIME Note.6	500ms, 30ms / 230VAC at full load			
	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.)	75%	81%	81%	83%
	AC CURRENT	0.2A/230VAC		<u>'</u>	
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=120µs measured at 50% lpeak) 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	OVER LOAD	Above 105% rated output power			
		Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	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			
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	±0.03%/°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, IP42 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC			
SAFETY &	ISOLATION RESISTANCE	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			
	EMC IMMUNITY	Compliance to EN61547,EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A			
OTHERS	MTBF	1145.7K hrs min. MIL-HDBK-217F (25°ℂ)			
	DIMENSION	77*40*29(L*W*H)			
	PACKING	0.08Kg; 120pcs/11.8Kg/1.06CUFT			
NOTE	Ripple & noise are measure Tolerance : includes set up Derating may be needed ur The power supply is consided complete installation, the fire	All lymentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. The dealth of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor. To tolerance, line regulation and load regulation. The dealth of low input voltage. Please check the static characteristics for more details. The dered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the deal equipment manufacturers must re-qualify EMC Directive on the complete installation again. The dealth of the dealth of the lower supply may lead to increase of the set up time.			



E-Star Power Development Co., Ltd. (E-STAR)

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

12W LED Driver power supply < APV-12E

