



Dimension: 99*82*30mm



■ Applications :

- LED lighting
- Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus

■ Features :

- Universal AC input/Full range
- Miniature size and 1U low profile, low weight
- Protections: Short circuit/Overload/Over voltage
- Cooling by free air convection
- No load power consumption < 0.5W
- Operating altitude up to 5000 meters (Note6)
- LED indicator for power on
- 100% full load burn-in test
- High efficiency, long life and high reliability
- 2 years warranty

■ Description :

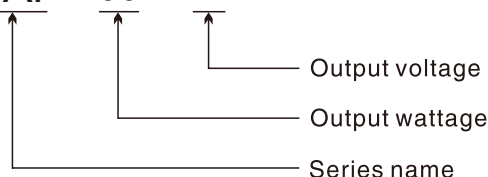
FAP-60 series is a 60W single-output enclosed type power supply with 30mm of low profile design. Adopting the full range 85~264 VAC input, the entire series provides an output voltage line of 5V, 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of FAP-60 that the whole series operates from -30°C through 70°C under air convection without a fan. Delivering an extremely low no load power consumption (less than 0.5W), it allows the end system to easily meet the worldwide energy requirement, FAP-60 has the complete protection functions and 3G anti-vibration capability; it is complied with the international safety regulations such as TUV EN60950-1, UL 60950-1 and Gb4943, TUV EN61347-1, UL 61347-1

FAP-60 series serve as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding

FAP - 60 - 12



SPECIFICATION

Model		FAP-60-5V	FAP-60-12V	FAP-60-15V	FAP-60-24V	FAP-60-36V	FAP-60-48V
Output	DC voltage	5V	12V	15V	24V	36V	48V
	Rated current	10A	5A	4A	2.5A	1.7A	1.3A
	Current range	0~10A	0~5A	0~4A	0~2.5A	0~1.7A	0~1.3A
	Rated power	50W	60W	60W	60W	61.2W	62.4W
	Ripple&noise	100mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p
	DC voltage ADJ. range	± 10%	± 10%	± 10%	± 10%	± 10%	± 10%
	Voltage tolerance Note.3	± 3%	± 2%	± 1%	± 1%	± 1%	± 1%
	Line regulation Note.4	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	Load regulation Note.5	± 2%	± 1%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	Setup, rise, hold up time	800ms, 30ms, 30ms/230VAC (full load)					
Input	Voltage range	90~264VAC, 127~373VDC (Withstand 300VAC surge input for 5 second)					
	Frequency range	47~63Hz					
	AC current	1.1A/115VAC 0.65/230VAC					
	Efficiency	83%	86%	87%	88%	89%	90%
	Inrush current	Cold start 45A/230VAC					
	leakage current	< 0.75mA/240VAC					
Protection	Overload	Rated output power 110% ~ 150% Start overload protection					
		Protection type: hiccup mode, auto-recovery after fault condition is removed					
	Over voltage	Rated output voltage 115%~135% Start over voltage protection					
		Protection type: cut off the output, auto-recovery after fault condition is removed					
Environment	Working temperature	-30°C ~ +70°C (Please refer to "derating curve")					
	Working humidity	20%~90%RH Non-condensing					
	Storage temp& humidity	-40°C ~ +85°C; 10%~95%RH Non-condensing					
	Withstand vibration	10~500Hz, 3G 10min./1Cycle, Period for 60min, Each axes					
Safety	Withstand voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC					
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25°C/70%RH					
Standards compliance	Safety standards	Compliance to UL60950-1, TUV EN60950-1, UL61347-1, TUV EN61347-1					
	EMC emission	Compliance to EN55015 (CISPR22) Class A, GB9254 Class A, EN55014, EN61000-3-2, 3					
	EMC immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-1					
Others	Dimension	99*82*30 mm (L*W*H)					
	Weight	0.21kg/60pcs/13.6kg/0.025m³/0.88CUFT					
	MTBF	≥ 610K hrs min. MIL-HDBK-217F (25°C)					

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. Line regulation is measured from low line to high line at rated load.

5. Load regulation is measured from 0% to 100% rated load

6. The ambient temperature derating of 5°C/1000 m is needed for operating altitude greater than 2000m (6500ft)

7. The power supply is considered as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests.