

ANC50 SERIES

50 Watts

KEY FEATURES

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Regulated Output
- Low Ripple and Noise
- Small Size as ANC 15Watt with 50Watt Higher Power
- CE, CB and UL Approval
- 3-Year Product Warranty



ELECTRICAL SPECIFICATIONS

All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Model No. (Single Output)		ANC50-5S	ANC50-12S	ANC50-15S	ANC50-24S	ANC50-48S
Max Output Wattage (W)		40W	50W	50W	50W	50W
Input	Voltage	90-264 VAC or 120-370 VDC, " L " to DC " + " ; " N " to DC " - "				
	Frequency (Hz)	47-63 Hz				
	Current (Full load)	1000 mA max. (115 VAC) / 600 mA max. (230 VAC)				
	Inrush Current (<2ms)	40 A max. (115 VAC) / 60 A max. (230 VAC)				
	Leakage Current	0.25 mA max.				
	External Fuse (recommend)	3.15 A slow blow type				
Output	Voltage (V.DC.)	5V	12V	15V	24V	48V
	Voltage Accuracy	±2%				
	Current (mA) max	8000	4167	3333	2083	1040
	Line Regulation (LL-HL) (typ.)	±1%				
	Load Regulation (0-100%) (typ.)	±1%				
	Minimum Load	0%				
	Maximum Capacitive Load	10000 uF	3500 uF	3000 uF	2200 uF	330uF
	Ripple & Noise	120mV	120mV	150mV	240mV	480mV
	Efficiency (at 230 VAC)	86%	90%	87%	88%	89%
	Hold-up Time	10 ms min.				
	Switching Frequency (typ.) (at 230 VAC)	65 kHz				
Protection	Over Power Protection	Hiccup technique, auto-recovery				
	Over Voltage Protection	Zener diode clamp				
	Short Circuit Protection	Hiccup mode (automatic recovery)				
Isolation	Input-Output (V.AC)	3000V				
	Input-FG (V.AC)	1500V				
	Output-FG (V.AC)	500V				
Environment	Operating Temperature (Note 3)	-40°C...+70°C (with derating)				
	Storage Temperature	-40°C...+85°C				
	Temperature Coefficient	±0.02%/°C				
	Humidity	95% RH				
	MTBF	>300,000 h @ 25°C (MIL-HDBK-217F)				
Physical	Dimensions (L x W x H)	2.91 x 2.13 x 0.87 Inches (74.1 x 54.1 x 22.1 mm) Tolerance ±0.5 mm, Height Tolerance ±1 mm				
	Case Material	Plastic resin (flammability to UL 94V-0)				
	Weight	166 g				
	Cooling Method	Free air convection				

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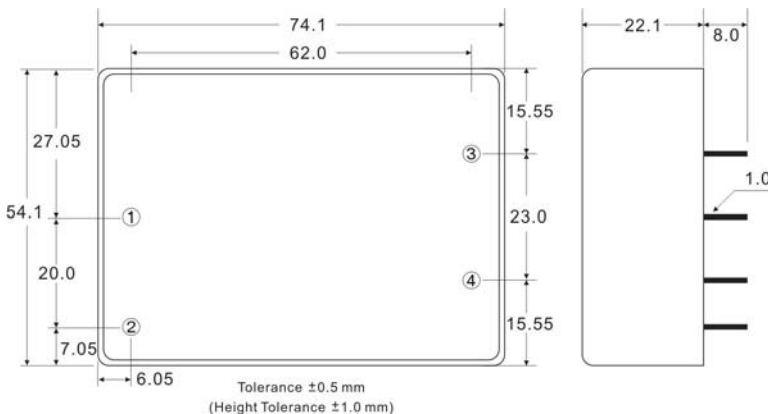
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Safety	Agency Approvals	IEC / EN 60950, UL / IEC / EN 62368-1				
EMC	EMI (Conducted & Radiated Emission)	EN 55032				
	EMS (Noise Immunity)	EN 55024				
	ESD	EN61000-4-2 air $\pm$ 8kV , Contact $\pm$ 4kV (A)				
	Radiated Immunity	EN61000-4-3 3V/m (A)				
	Fast Transient	EN61000-4-4 $\pm$ 1kV (A)				
	Surge	EN61000-4-5 $\pm$ 2kV (A)				
	Conducted Immunity	EN61000-4-6 3Vrms (A)				
	PFMF	EN61000-4-8 1A/m (A)				
	Dips	EN61000-4-11 30% 500ms (A)				

NOTE

1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. It's recommended to add Varistor 14S471K at L / N input side in parallel.
3. Due to varying customer application conditions, the product is tested for maximum operating temperature under full load only. For other regulatory requirements, please contact ARCH.
4. Please refer to our PDF file "AC-DC Application" on our website: www.archcorp.com.tw

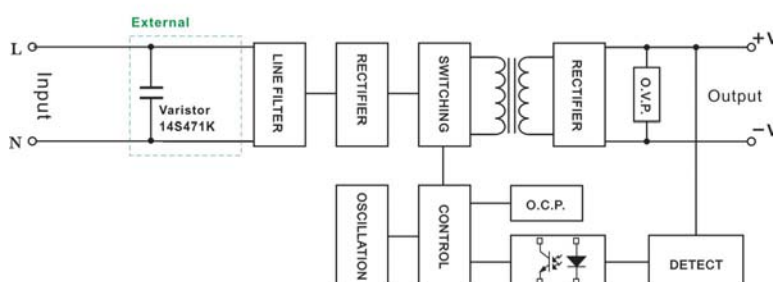
MECHANICAL DIMENSIONS (Top View)



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	-DC OUT
4	+DC OUT

BLOCK DIAGRAM

Single Output



DERATING

