ANC50 SERIES 50 Watts

KEY FEATURES

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

CE cULus CB
E199779
LEVEL3

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, indefinite (automatic recovery)				
Isolation	Input-Output (V.AC)	3000V				
	Input-FG (V.AC)	1500V				
	Output-FG (V.AC)	500V				
Environment	Operating Temperature	-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	Dimension (L x W x H)	2.91 x 2.13 x 0.86 Inches (74.1 x 54.1 x 21.8 mm) Tolerance ±0.5 mm				
	Case Material	Plastic resin (flammability to UL 94V-0)				
	Weight	166 g				
	Cooling Method	Free air convection				

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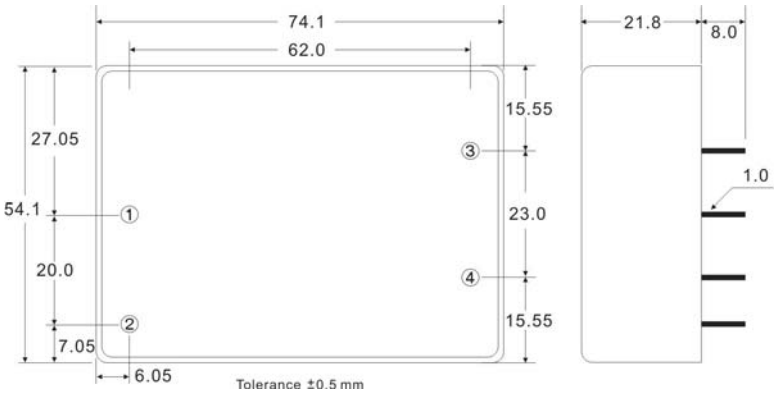
Safety	Agency Approvals	UL , cUL , CE , CB				
EMC	EMI (Conducted & Radiated Emission)	EN 55032				
	EMS (Noise Immunity)	EN 55024				
	ESD	EN61000-4-2 air ± 8kV , Contact ± 4kV (A)				
	Radiated Immunity	EN61000-4-3 3V/m (A)				
	Fast Transient	EN61000-4-4 ± 1kV (A)				
	Surge	EN61000-4-5 ±2kV (A)	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

NOTE

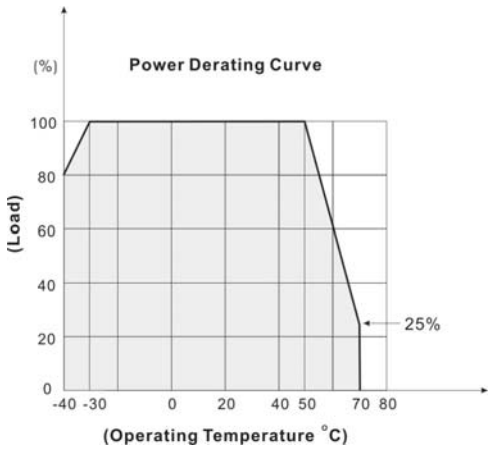
1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. It's recommended to add Varistor 14S471K at L / N input side in parallel.
3. Please refer to our PDF file "AC-DC Application" on our website: www.archcorp.com.tw

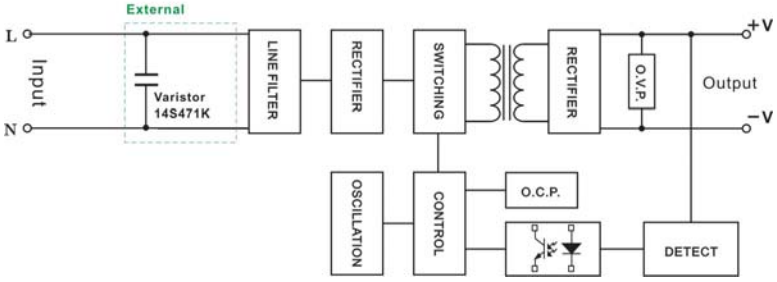
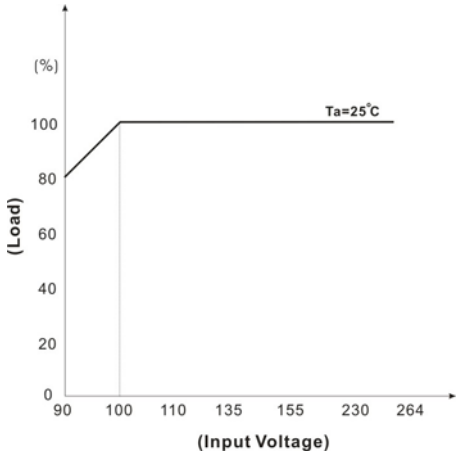
MECHANICAL DIMENSION (Top View)



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

DERATING



BLOCK DIAGRAM

Single Output