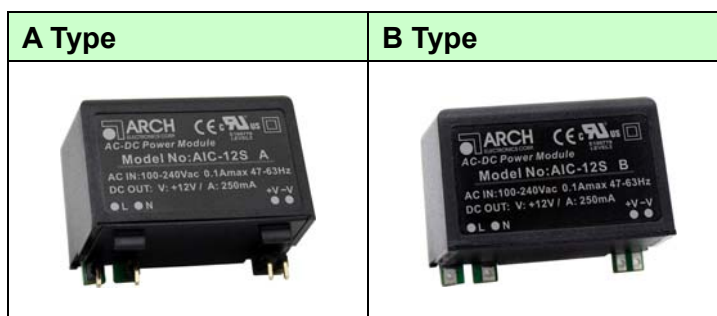


AIC SERIES

3 Watts

KEY FEATURES

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-63 Hz
- Low Ripple and Noise
- Isolation Class II
- Maximum No-Load Watts < 0.3W
- CE , 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.		AIC-3.3S	AIC-5S	AIC-9S	AIC-12S	AIC-15S	AIC-24S
Max Output Wattage (W)		2.97W	3W	3W	3W	3W	3W
Input	Voltage	90-264 VAC or 120-370 VDC					
	Frequency (Hz)	47-63 Hz					
	Current (Full load)	75 mA max. (115 VAC) / 55 mA max. (230 VAC)					
	Inrush Current (<500us)	20 A max. (115 VAC) / 50 A max. (230 VAC)					
	Leakage Current	0.25 mA max.					
	External Fuse (recommend)	3.15 A slow blow type					
Output	Voltage (V.DC.)	3.3V	5V	9V	12V	15V	24V
	Voltage Accuracy	±10%					
	Current (mA) max	900	600	333	250	200	125
	Line Regulation (LL-HL) (typ.)	±5%	±2%				
	Load Regulation (0-100%) (typ.)	±5%	±2%				
	Minimum Load	0%					
	Maximum Capacitive Load (at 230VAC)	14000uF	8000uF	3200uF	1500uF	1000uF	470uF
	Ripple & Noise (Vp-p) max	<250mV	<200mV	<150mV	<100mV		
	Efficiency	69%	71%	76%	76%	76%	77%
	Hold-up Time	15 ms min.					
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					
Environment	Operating Temperature (Note 4)	-40°C...+85°C (with derating)					
	Storage Temperature	-40°C...+85°C					
	Temperature Coefficient	±0.02%/°C					
	Humidity	95% RH					
	MTBF	>650,000 h @ 25°C (MIL-HDBK-217F)					
Physical	Dimensions (L x W x H)	1.41 x 0.75 x 0.86 Inches (35.7 x 19.0 x 22.0 mm) Tolerance ±0.5 mm					
	Case Material	Plastic resin (flammability to UL 94V-0)					
	Weight	26 g					
	Cooling Method	Free air convection					
Safety	Agency Approvals	UL, cUL, CE					
EMC	EMI (Conducted & Radiated Emission)	EN 55032 class B					
	EMS (Noise Immunity)	EN 55024					

AIC SERIES

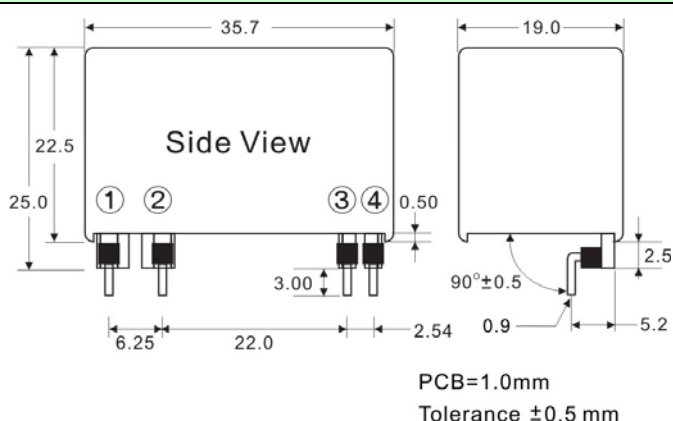
3 Watts

NOTE

1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. It's necessary Varistor 14S471K at L / N input side in parallel.
3. It's necessary 10R / 15φ thermistor at L input side in series connection.
4. 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.
5. Please refer to our PDF file "AC-DC Application" on our website: www.archcorp.com.tw

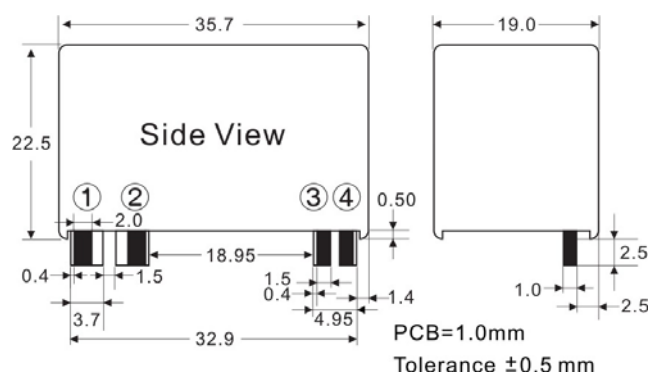
MECHANICAL DIMENSIONS

A Type



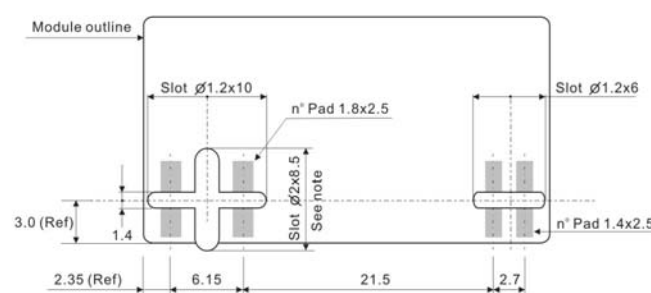
PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT

B Type



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

PCB Footprint- Bottom Side View

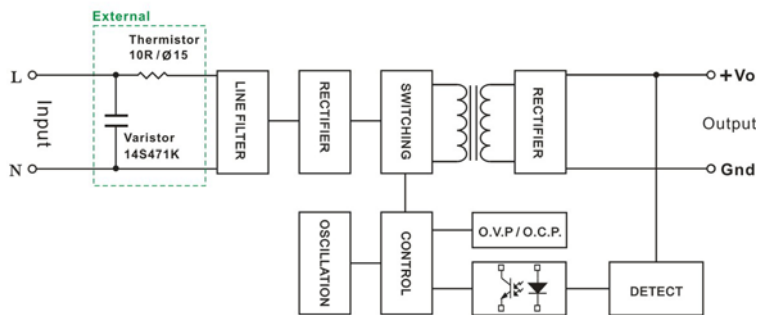


Note:

The 2x8.5mm slot is not mandatory
This slot is useful when high creepage PCB tracks are required

BLOCK DIAGRAM

Single Output



DERATING

