

KEY FEATURES

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Noise
- High Efficiency
- CE, UL Approval
- 2-Years Product Warranty



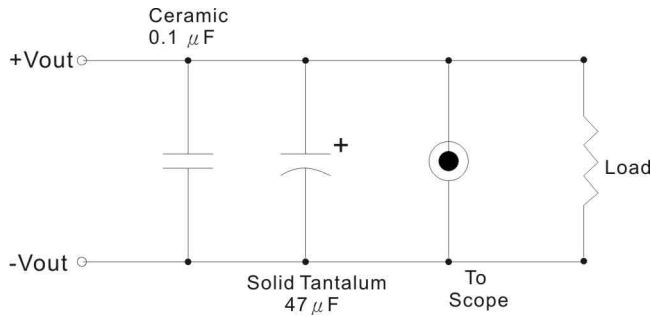
ELECTRICAL SPECIFICATIONS

Model No.	AHC-3.3S	AHC-5S	AHC-12S	AHC-15S	AHC-24S
Max Output Wattage (W)	4W	5W	5W	5W	5.5W
Input	Voltage				
	90-264 VAC or 120-370 VDC				
	Frequency (Hz)				
	47-440 Hz				
	Current (Full load)				
	110 mA max. (115 VAC) / 70 mA max. (230 VAC)				
Output	Inrush Current (<2ms)				
	10 A max. (115 VAC) / 20 A max. (230 VAC)				
	Leakage Current				
	0.75 mA max.				
	External Fuse (recommend)				
	1.5 A slow blow type				
	Voltage (V.DC.)				
	3.3V 5V 12V 15V 24V				
	Voltage Accuracy				
	±2%				
Current (mA) max					
1250 1000 420 333 230					
Line Regulation (LL-HL) (typ.)					
±0.3%.					
Load Regulation (5-100%) (typ.)					
±0.5%.					
Minimum Load					
0%					
Maximum Capacitive Load					
470-23,000µF depending on model					
Ripple					
<0.2% Vout +40mV max (Vp-p)					
Noise					
<0.5% Vout +50mV max (Vp-p)					
Efficiency					
64% 67% 73% 73% 75%					
Hold-up Time					
15 ms min.					
Switching Frequency					
132 kHz					
Protection	Over Power Protection				
	Hiccup technique, auto-recovery				
	Over Voltage Protection				
Zener diode clamp					
Isolation	Short Circuit Protection				
	Hiccup mode, indefinite (automatic recovery)				
Environment	Input-Output (V.AC)				
	3000V				
	Operating Temperature				
	-25°C...+70°C (with derating)				
	Storage Temperature				
-40°C...+85°C					
Temperature Coefficient					
±0.02%/°C					
Humidity					
95% RH					
MTBF					
>360,000 h @ 25°C (MIL-HDBK-217F)					
Physical	Dimension (L x W x H)				
	2.0 x 1.0 x 0.597 Inches (50.8 x 25.4 x 15.16 mm) Tolerance ±0.5 mm				
	Case Material				
	Plastic resin with Fiberglass (flammability to UL 94V-0)				
Safety	Weight				
	30 g				
	Cooling Method				
Free air convection					
EMC	Agency Approvals				
	UL/cUL, CE				
EMC	EMI (Conducted & Radiated Emission)				
	EN 55022 class B				
EMC	EMS (Noise Immunity)				
	EN 55024				

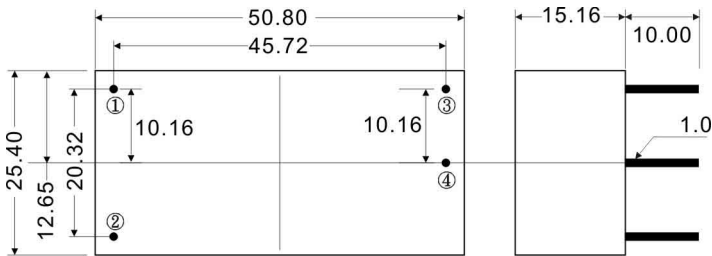
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

OUTPUT NOISE

The output noise is measured with 47 μ F tantalum capacitor and 0.1 μ F ceramic capacitor across output.

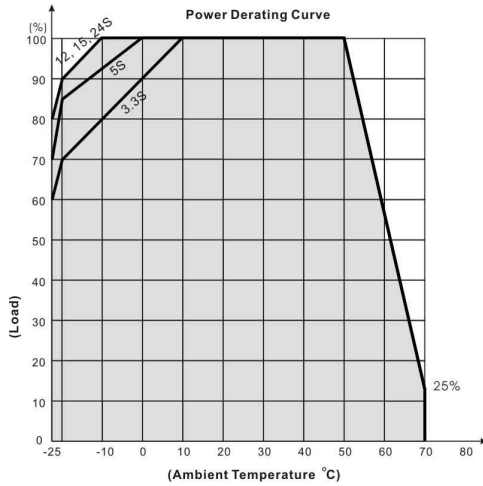


MECHANICAL DIMENSION (Top View)

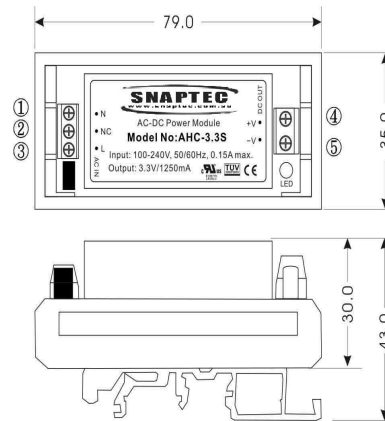


PIN#	SINGLE
1	AC IN (N)
2	AC IN (L)
3	+DC OUT
4	-DC OUT

DERATING



DIN RAIL MOUNT OPTION -DIN



BLOCK DIAGRAM

Single Output

