

AHC-DN Series

5 W AC/DC Power Module – DIN Rail

CoolPower
Solutions

- Din Rail Switching Power Supply
- 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

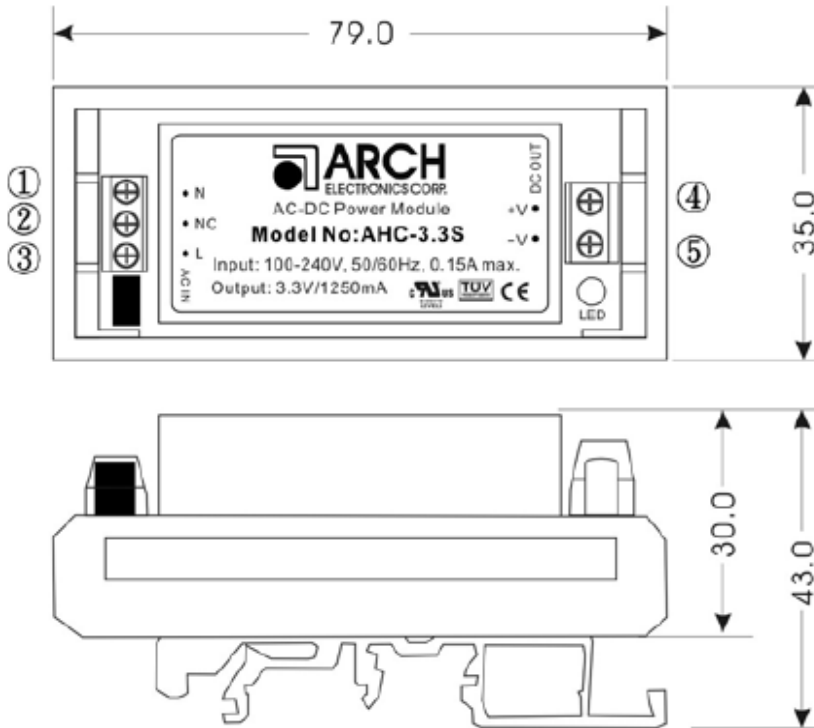
Model No.	AHC-3.3S-DN	AHC-5S-DN	AHC-12S-DN	AHC-15S-DN	AHC-24S-DN					
Max Output Wattage (W)	4.125W	5W	5W	5W	5.5W					
Input	Voltage					90-264 VAC or 120-370 VDC				
	Frequency (Hz)					47-440 Hz				
	Current (Full load)					110 mA max. (115 VAC) / 70 mA max. (230 VAC)				
	Inrush Current (<2ms)					10 A max. (115 VAC) / 20 A max. (230 VAC)				
	Leakage Current					0.75 mA max.				
Output	Voltage (V.DC.)		3.3V	5V	12V	15V	24V			
	Voltage Accuracy		±2%							
	Current (mA) max		1250	1000	420	333	230			
	Line Regulation		±0.3% (LL-HL) (typ.)							
	Load Regulation		±0.5% (5-100%) (typ.)							
	Minimum Load		0%							
	Max 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%	66%	72%	72%	71%			
	Hold-up Time		15 ms min.							
	Switching Frequency		132 kHz							
Protection	Over Power Protection					Hiccup technique, auto-recovery				
	Over Voltage Protectio					Zener diode clamp				
	Short Circuit Protection					Hiccup mode, indefinite (automatic recovery)				
Isolation	Input-Output (V.AC)					3000V				
Environment	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)					1.38 x 3.11 x 1.692 Inches (35.0 x 79.0 x 43.0 mm) Tolerance ±0.5 mm				
	Case Material					Plastic resin with Fiberglass (flammability to UL 94V-0)				
	Weight					67 g				
	Cooling Method					Free air convection				
Safety	Agency Approvals					UL/cUL, CE, TÜV				
EMC	EMI					EN 55022 class B (Conducted & Radiated Emission)				
	EMS (Noise Immunity)					EN 55024				

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

AHC-DN Series

5 W AC/DC Power Module – DIN Rail

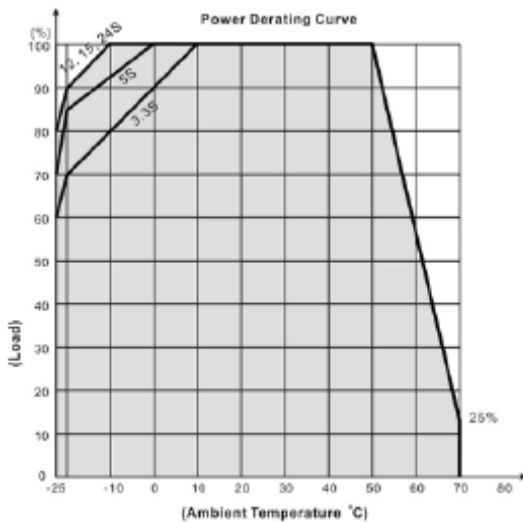
Mechanical Specifications (top view)



Pin no:	Single
1	AC IN (N)
2	Don not connect
3	AC IN (L)
4	+DC OUT
5	-DC OUT

CoolPower
Solutions

Derating



Block Diagram

Single Output

