

**KEY FEATURES**

- Switching Power Modules for PCB Mounting
- Fully Encapsulated Plastic Case
- Universal Input Range 90-260VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Noise
- High Efficiency
- 2-Year Product Warranty

**PRELIMINARY**

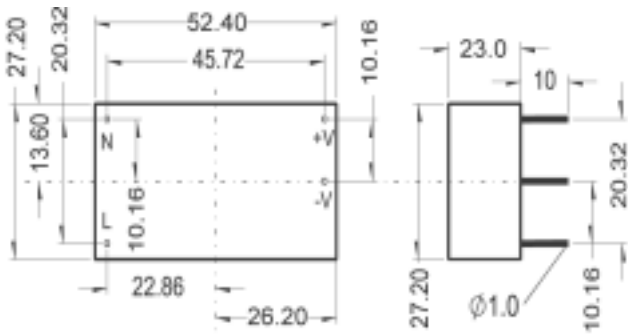
**ELECTRICAL SPECIFICATIONS**

Model No.	AFC-3.3S	AFC-5S	AFC-12S	AFC-15S	AFC-24S
Max output wattage (W)	10W	10W	10W	10W	10W
Input	Voltage				
	90-260 VAC or 120-370 VDC				
	Frequency (Hz)				
	47-440 Hz				
	Current (Full load)				
	220 mA max. (115 VAC) / 150 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				
	Voltage accuracy				
	±2%				
	Current (mA) max				
	2500				
Line regulation (typ.)					
±0.3%					
Load regulation (5-100%) (typ.)					
±0.5%					
Minimum load					
0%					
Maximum capacitive load					
10,000µF					
Ripple					
0.2%+40mV (max.)					
Noise					
0.5%+50mV (max.)					
Efficiency					
76%					
78%					
80%					
81%					
81%					
Hold-up time					
15 ms min.					
Switching frequency					
125 kHz					
125 kHz					
125 kHz					
125 kHz					
125 kHz					
Protection	Over current protection				
	Foldback 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					
Resistance					
10 <sup>9</sup> ohms					
Environment	Operating temperature				
	-25°C...+71°C				
	Storage temperature				
	-40°C...+85°C				
	Temperature coefficient				
0.02%/°C					
0.02%/°C					
0.02%/°C					
0.02%/°C					
0.02%/°C					
Humidity					
20-85% RH					
MTBF					
Pending					
Physical	Dimension (L x W x H)				
	2.05 x 1.06 x 0.91 Inches (52 x 27 x 23 mm)				
	Case Material				
	Plastic resin + Fiberglass (flammability to UL 94V-0)				
Weight					
30 g					
Cooling method					
Free air convection					
General	Vibration				
	10-55 Hz 0.5 mm width/ 1 minute cycle				
Shock					
20 G (3 directions each 3 times.)					
Safety	Agency approvals				
Pending					
EMC	EMI (Conducted & Radiated Emission)				
	EN 55022 class B				
EMS (Noise Immunity)					
EN 55024					

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

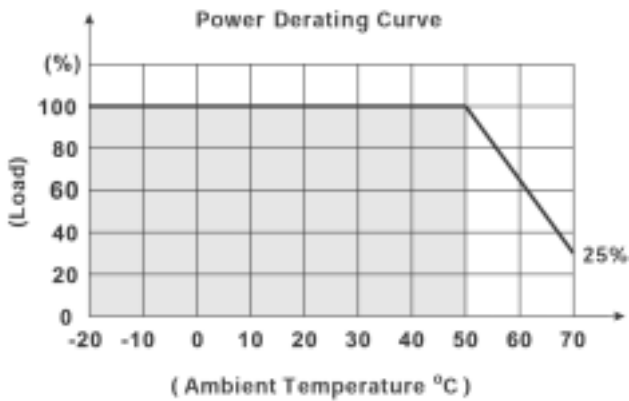
**AFC SERIES** **10 Watts**

**MECHANICAL DIMENSION (Top View)**



PIN#	SINGLE
N	AC IN
L	AC IN
+V	+DC OUT
-V	-DC OUT

**DERATING**



**BLOCK DIAGRAM**

