

AFC SERIES

10 Watts

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

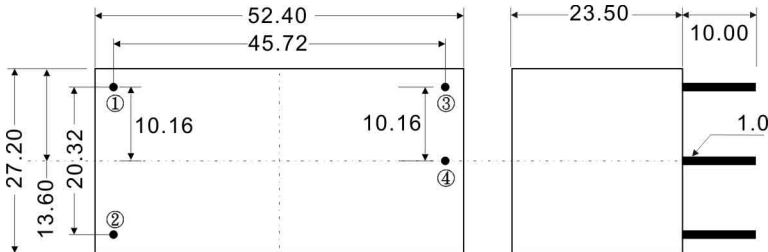


ELECTRICAL SPECIFICATIONS

Model No.	AFC-3.3S	AFC-5S	AFC-12S	AFC-15S	AFC-24S
Max Output Wattage (W)	10W	10W	10W	10W	10W
Input	Voltage				
	90-264 VAC				
	Frequency (Hz)				
	47-440 Hz				
	Current (Full load)				
220 mA max. (115 VAC) / 150 mA max. (230 VAC)					
Input	Inrush Current (<2ms)				
	10 A max. (115 VAC) / 20 A max. (230 VAC)				
	Leakage Current				
	0.25 mA max.				
	Output	Voltage (V.DC.)			
3.3V		5V	12V	15V	24V
Voltage Accuracy					
±2%					
Current (mA) max					
2500		2000	833	667	417
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					
70%	72%	76%	75%	72%	
Hold-up Time					
15 ms min.					
Switching Frequency					
125 kHz					
Protection	Over Power Protection				
	Hiccup technique, auto-recovery				
	Over Voltage Protection				
Zener diode clamp					
Protection	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					
20-85% RH					
MTBF					
>330,000 h @ 25°C (MIL-HDBK-217F)					
Physical	Dimension (L x W x H)				
	2.06 x 1.07 x 0.93 Inches (52.4 x 27.2 x 23.5 mm) Tolerance ±0.5 mm				
	Case Material				
	Plastic resin with Fiberglass (flammability to UL 94V-0)				
Physical	Weight				
	54 g				
Physical	Cooling Method				
	Free air convection				
Genera	Vibration				
	10-55 Hz 0.5 mm width/ 1 minute cycle				
Genera	Shock				
	20 G (3 directions each 3 times.)				
Safety	Agency Approvals				
UL/cUL, CE, CB					
EMC	EMI (Conducted & Radiated Emission)				
	EN 55022 class B				
EMC	EMS (Noise Immunity)				
	EN 55024				

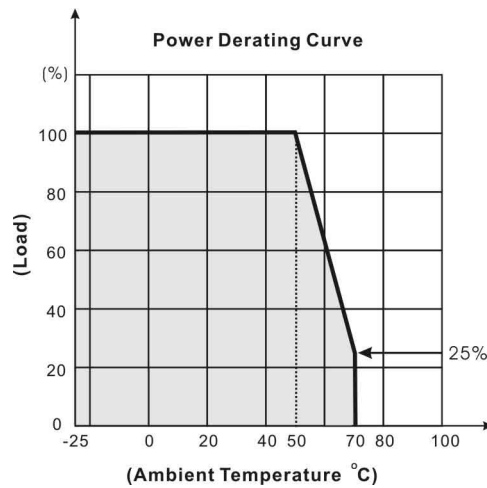
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

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

