

KEY FEATURES

- Din Rail Switching Power Supply
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output
- Low Ripple and Noise
- High Efficiency
- CE, cUL, TUV Approvals
- 2-Year Product Warranty

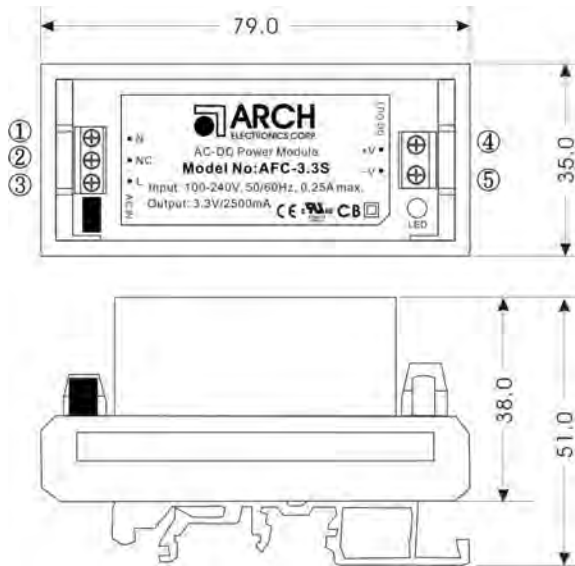

ELECTRICAL SPECIFICATIONS

| Model No. | AFC-3.3S-DN | AFC-5S-DN | AFC-12S-DN | AFC-15S-DN | AFC-24S-DN |
|---|--|-----------|------------|------------|------------|
| Max Output Wattage (W) | 8.25W | 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) | | | | | |
| 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 | | | | |
| | 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% | 75% | 74% | 70% | |
| Hold-up Time | | | | | |
| 15 ms min. | | | | | |
| Switching Frequency | | | | | |
| 125 kHz | | | | | |
| Protection | Over Power Protection | | | | |
| | Hiccup technique, auto-recovery | | | | |
| | Over Voltage Protection | | | | |
| 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 | | | | | |
| 20-85% RH | | | | | |
| MTBF | | | | | |
| >330,000 h @ 25°C (MIL-HDBK-217F) | | | | | |
| Physical | Dimension (L x W x H) | | | | |
| | 1.38 x 3.11 x 2.0 Inches (35.0 x 79.0 x 51.0 mm) Tolerance ±0.5 mm | | | | |
| | Case Material | | | | |
| | Plastic resin with Fiberglass (flammability to UL 94V-2) | | | | |
| Weight | | | | | |
| 91 g | | | | | |
| Cooling Method | | | | | |
| Free air convection | | | | | |
| Genera | Vibration | | | | |
| | 10-55 Hz 0.5 mm width/ 1 minute cycle | | | | |
| Shock | | | | | |
| 20 G (3 directions each 3 times.) | | | | | |
| Safety | Agency Approvals | | | | |
| UL/cUL, CE, CB | | | | | |
| 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.

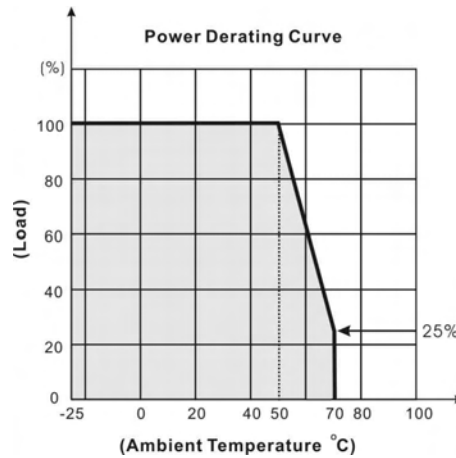
AFC DN SERIES **10 Watts**

MECHANICAL DIMENSION (Top View)



| PIN# | SINGLE |
|------|----------------|
| 1 | AC IN (N) |
| 2 | DO NOT CONNECT |
| 3 | AC IN (L) |
| 4 | +DC OUT |
| 5 | -DC OUT |

DERATING



BLOCK DIAGRAM

