### KEY FEATURES
- U Bracket Switching Power Supply
- Universal Input: 90-264 VAC
- With P.F.C. Function, PF>0.95
- High Efficiency up to 93%
- RoHS Compliant Design
- Ultra Compact Size: 6.0 x 4.18 x 1.38 Inches
- 3-Year Product Warranty

### ELECTRICAL SPECIFICATIONS

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

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<tbody>
<tr>
<td>Max Output Wattage (W)</td>
<td>180W</td>
<td>240W</td>
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#### Input

| Voltage (Note 3) | 90-264 VAC or 120-370 VDC |
| Frequency (Hz) | 47-63 Hz |
| Current (Full load) | <3.0 A max. (115 VAC) / <1.5 A max. (230 VAC) |
| Inrush Current (<2ms) | < 30 A max. (115 VAC) / < 60 A max. (230 VAC) |
| Leakage Current | < 0.5 mA max. |
| Power Factor | PF>0.98 (115 VAC) / PF>0.95 (230 VAC) at Full Load |

#### Output

| Voltage (V.DC.) | 5V | 12V | 15V | 24V | 28V | 36V | 32V | 48V |
| Voltage Accuracy | ±2% |
| Current (Convection) (A) max | 36 | 20 | 16 | 10 | 8.57 | 6.66 | 7.5 | 5 |
| Line Regulation | ±1% |
| Load Regulation | ±1% |
| Minimum Load | 5% | 2% |
| Maximum Capacitive Load | 470-23,000μF depending on model |
| Ripple & Noise (max.) | 150mVp-p | 120mVp-p | 200mVp-p |
| Efficiency (at 230VAC) | 87% | 90% | 90% | 92% | 92% | 92% | 92% | 93% |
| Hold-up Time | 10 ms min. |

#### Protection
- Over Power Protection: Auto recovery
- Over Voltage Protection: Latch Off
- Short Circuit Protection: Latch Off

#### Isolation
- Input-Output (V.AC) 4000VAC or 5656VDC
- Input-FG (V.AC) 2000V
- Output-FG (V.AC) 500V

#### Environment
- Operating Temperature: -10°C…+70°C (with derating)
- Storage Temperature: -25°C…+85°C
- Temperature Coefficient: ±0.03%/°C (0~50°C)
- Humidity: 95% RH
- MTBF: >120,000 h @ 25°C (MIL-HDBK-217F)
- Vibration: 10~500Hz, 2G 10min./ cycle, 60min. each along X, Y, Z axes.

#### Physical
- Dimension (L x W x H): 5S: 6.0 x 4.18 x 1.46 Inches (150.0 x 106.0 x 37.0 mm) Tolerance ±0.5 mm
- Others: 6.0 x 4.18 x 1.38 Inches (150.0 x 106.0 x 35.0 mm) Tolerance ±0.5 mm
- Weight: 580 g
- Cooling Method: Free convection or 18CFM

#### Safety
- Agency Approvals: CE, UL60950(except 5S), CB(except 5S & 36S)

#### EMC
- EMI (Conducted & Radiated Emission): EN 55032 class B
- EMS (Noise Immunity): EN 55024
NOTE
1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. Strongly recommend to conduct this test with DC Voltage. If customer wishes to test with AC Voltage, please disconnect all Y-Capacitors within Arch power supply.
3. Derating may be needed under low input voltages. Please check the derating curve for more details.

DERATING

BLOCK DIAGRAM

Single Output
MECHANICAL DIMENSION (Top View)

Standard (5S)

<table>
<thead>
<tr>
<th>PIN#</th>
<th>Single</th>
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<tbody>
<tr>
<td>1</td>
<td>AC IN (L)</td>
</tr>
<tr>
<td>2</td>
<td>AC IN (N)</td>
</tr>
<tr>
<td>3</td>
<td>FG</td>
</tr>
<tr>
<td>4</td>
<td>+DC OUT</td>
</tr>
<tr>
<td>5</td>
<td>+DC OUT</td>
</tr>
<tr>
<td>6</td>
<td>-DC OUT</td>
</tr>
<tr>
<td>7</td>
<td>-DC OUT</td>
</tr>
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ASSEMBLY INSTRUCTIONS

*U Case  T=2.0mm

Customer is advised to screw into the threads no more than 2.0mm
AC-DC Switching Power Supply

AOF240U SERIES

240 Watts

Standard (12S、15S、24S、28S、32S、48S)

PIN#

Single

1
AC IN (L)
2
AC IN (N)
3
FG
4
+DC OUT
5
+DC OUT
6
-DC OUT
7
-DC OUT

ASSEMBLY INSTRUCTIONS

*U Case T=2.0mm

Customer is advised to screw into the threads no more than 2.0mm

A Type (except 5S)

PIN#

Single

1
AC IN (L)
2
AC IN (N)
3
FG
4-7
+DC OUT
8-11
-DC OUT

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