# AC/DC External Desktop

## 110 Watts
## PUP110 Series

**XPiQ inc.**
Intelligent Design Quality Product

- Built-in EMI Filter
- International Safety Approvals with CE Mark
- 100% Burn-In
- 3000 VAC Isolation
- Input Surge Protection
- Wide Input Voltage 85 to 264 VAC

## Specification

All specifications typical at nominal line, full load and 25°C

### Input

| | | |
|---|---|---|
| *Input Voltage* | • | *85-264 VAC* |
| *Input Frequency* | • | *47 to 440 Hz* |
| *Input Current* | • | *3.20 A (rms) for 115 VAC*<br>*1.80 A (rms) for 230 VAC* |

### Output

| | | |
|---|---|---|
| *Output Voltage* | • | *See Tables* |
| *Output Current* | • | *See Tables* |
| *Ripple and Noise* | • | *1% pk-pk max* |
| *Overvoltage Protection* | • | *Provided on output #1 only set at 112-132% of its nominal output voltage* |
| *Overcurrent Protection:* | • | *All outputs protected to short circuit conditions* |
| *Temperature Coefficient:* | • | *All outputs ±0.04%/°C maximum* |
| *Power Fail Detect (optional)* | • | *TTL logic high for normal operation and TTL logic low upon loss of input power. This signal appears at least 1 ms prior to +5 V output dropping 5% below its nominal value. This signal also provides a minimum delay of 100 ms after +5 V is within regulation* |

### General

| | | |
|---|---|---|
| *Efficiency* | • | *62% minimum at 110 W output* |
| *Hold-up time* | • | *12 msec minimum* |
| *Line Regulation* | • | *±0.5% maximum at full load* |
| *Inrush Current* | • | *15 A at 115 VAC or*<br>*30 A at 230 VAC at +25 °C cold start* |
| *Withstand Voltage* | • | *3000 VAC from input to output*<br>*1500 VAC from input to ground*<br>*500 VAC from output to ground* |
| *Insulation Resistance* | • | *10 Mohm minimum from output to ground* |

### Environmental

| | | |
|---|---|---|
| *Operating Temperature* | • | *0 °C to +70 °C derate linearly from 100% load at +50 °C to 50% load at +70 °C* |
| *Storage Temperature* | • | *-40 °C to +85 °C* |
| *MTBF* | • | *100,000 hours minimum at full load at +25 °C ambient* |

### EMC & Safety

| | | |
|---|---|---|
| *EMI Requirements* | • | *Meets conducted limits of FCC 20780 Level B, CISPR 22 (EN 55022) Level B* |
| *Safety Requirements* | • | *Approved to:*<br>*a) UL 1950*<br>*b) CSA C22.2 No. 234*<br>*c) IEC 950* |


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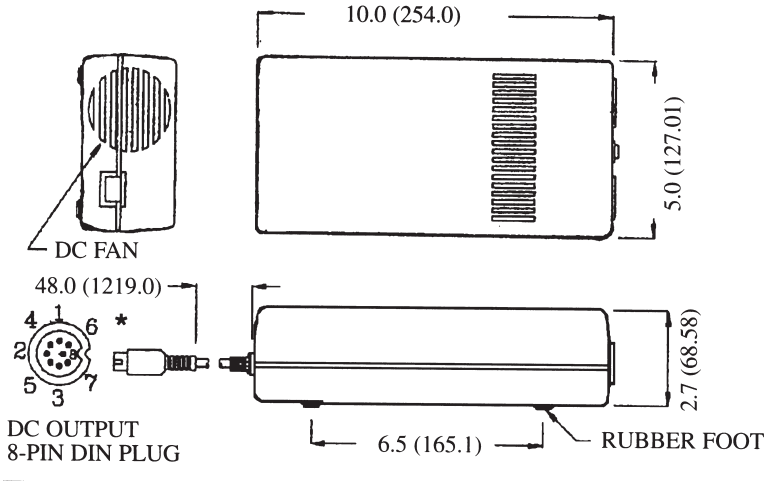
## OUTPUT VOLTAGE & CURRENT RATINGS — PUP110

| Output #1 | | | | Output #2 | | | | | Output #3 | | | | Output #4 | | | | Model |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vnom | Imin | Imax | Tol. | Vnom | Imin | Imax | Ipeak | Tol. | Vnom | Imin | Imax | Tol | Vnom | Imin | Imax | Tol | Number |
| 5 V | 0 A | 22.0 A | 5% | | | | | | | | | | | | | | PUP110-10 |
| 12 V | 0 A | 9.0 A | 4% | | | | | | | | | | | | | | PUP110-12 |
| 15 V | 0 A | 7.5 A | 3% | | | | | | | | | | | | | | PUP110-13 |
| 24 V | 0 A | 4.5 A | 3% | | | | | | | | | | | | | | PUP110-14 |
| 30 V | 0 A | 3.6 A | 3% | | | | | | | | | | | | | | PUP110-16 |
| 48 V | 0 A | 2.3 A | 3% | | | | | | | | | | | | | | PUP110-18 |
| +5 V | 0 A | 10.0 A | 5% | +12 V | 0 A | 5 A | 9.0 A | 5% | | | | | | | | | PUP110-23 |
| +5 V | 0 A | 10.0 A | 5% | +12 V | 0 A | 5 A | 9.0 A | 5% | -12 V | 0 A | 1 A | 5% | | | | | PUP110-31 |
| +5 V | 0 A | 10.0 A | 5% | +15 V | 0 A | 4 A | 7.5 A | 5% | -15 V | 0 A | 1 A | 5% | | | | | PUP110-32 |
| +5 V | 0 A | 10.0 A | 5% | +12 V | 0 A | 5 A | 9.0 A | 5% | -12 V | 0 A | 1 A | 5% | -5 V | 0.0 A | 1 A | 5% | PUP110-40 |
| +5 V | 0 A | 10.0 A | 5% | +15 V | 0 A | 4 A | 7.5 A | 5% | -15 V | 0 A | 1 A | 5% | +24 V | 0.0 A | 1 A | 5% | PUP110-41 |
| +5 V | 0 A | 10.0 A | 5% | +12 V | 0 A | 5 A | 9.0 A | 5% | -12 V | 0 A | 1 A | 5% | +12 V | 0.0 A | 1 A | 5% | PUP110-42 |
| +5 V | 0 A | 10.0 A | 5% | +12 V | 0 A | 5 A | 9.0 A | 5% | -12 V | 0 A | 1 A | 5% | +24 V | 0.0 A | 1 A | 5% | PUP110-45 |
| +5 V | 2 A | 10.0 A | 5% | +12 V | 0 A | 5 A | 9.0 A | 5% | -12 V | 0 A | 1 A | 5% | +24 V | 1.5 A | 3 A | 10% | PUP110-45-1 |
| +5 V | 0 A | 10.0 A | 5% | +24 V | 0 A | 3 A | 5.0 A | 5% | -12 V | 0 A | 1 A | 5% | +12 V | 0.0 A | 1 A | 5% | PUP110-45-2 |
| +5 V | 0 A | 10.0 A | 5% | +15 V | 0 A | 4 A | 7.5 A | 5% | -15 V | 0 A | 1 A | 5% | -5 V | 0.0 A | 1 A | 5% | PUP110-46 |

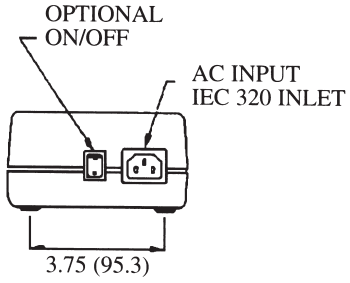
## Pin Chart

| Model | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| PUP110-10 PUP110-12 PUP110-13 PUP110-14 PUP110-16 PUP110-18 | Common Return | Common Return | Output #1 | Common Return | Output #1 | Common Return | Output #1 | PFD |
| PUP110-23 | Common Return | N.C. | Output #1 | N.C. | Output #2 | Common Return | Output #1 | PFD |
| PUP110-31 PUP110-32 | Common Return | Output #3 | Output #1 | N.C | Output #2 | Common Return | Output #1 | PFD |
| PUP110-40 PUP110-41 PUP110-42 PUP110-45 PUP110-45-1 PUP110-45-2 PUP110-46 | Common Return | Output #3 | Output #1 | OUTPUT #4 | Output #2 | Common Return | Output #1 | PFD |

## Mechanical Details




NOTE:
1. Dimensions shown in inches (mm).
2. Tolerance 0.02 (0.5) maximum.
3. Optional output connectors available.
4. Optional ON/OFF switch available.
5. Weight: 1.35 kg .




*AMP Receptacle No. 212047-1 or Equivalent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