

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
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 $\pm 0.04\%/^{\circ}\text{C}$ 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* • $\pm 0.5\%$ maximum at full load
- Inrush Current* • 15 A at 115 VAC or
30 A at 230 VAC at +25 °C cold start
- Withstand Voltage* • 3000 VAC from input to output
1500 VAC from input to ground
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:
a) UL 1950
b) CSA C22.2 No. 234
c) IEC 950

OUTPUT VOLTAGE & CURRENT RATINGS

PUP110

Output #1				Output #2					Output #3				Output #4				Model Number
Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Ipeak	Tol.	Vnom	Imin	Imax	Tol	Vnom	Imin	Imax	Tol	
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

