

AC/DC External Desktop

80 Watts HUP80 Series

XPiQ inc.

Intelligent Design Quality Product



Meets EN61000-3-2

Built-in EMI Filter

100% Burn-in

Input Surge Current Protection

CE Mark

Approved to UL, CSA and TUV
Safety Standards

Wide Input Voltage 90-264 VAC

Specification

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

Input

Input Voltage	• 90-264 VAC
Input Frequency	• 47 to 63 Hz
Input Current	• 1.9A maximum

Output

Output Voltage:	• See Tables
Output Current	• See Tables
Output Power Range	• 0 to 80 Watts
Ripple and Noise	• 1% peak to peak max.
Overvoltage Protection	• Provided on output #1 only set at 112-132% of its nominal voltage
Overcurrent Protection:	• All outputs protected to short circuit conditions
Temperature coefficient:	• All outputs $\pm 0.04\%/^{\circ}\text{C}$ maximum
Transient Response	• Maximum excursion of 4% or better on all models. Recovers to 1% of final value within 500 μs after a 25% step load change

General

Efficiency	• 83% typical
Hold-up time	• 12 msec minimum
Line Regulation	• $\pm 1\%$ maximum at full load
Inrush Current	• 15A max. at 115 VAC or 30A max. at 230 VAC cold start
Withstand Voltage	• 3000 VAC from input to output 1500 VAC from input to ground 500 VAC from output to ground
Insulation Resistance	• 100 Mohm minimum from output to ground

Environmental

Operating Temperature	• 0 °C to +70 °C, derate linearly from 100% load at +40 °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 Requirement	• Meets conducted and radiated limits of a) FCC Part 15 Class B b) CISPR 22 Class B
Safety Requirements	• Approved to: a) UL 1950 b) CSA C22.2 No. 234 per cUL c) EN60950

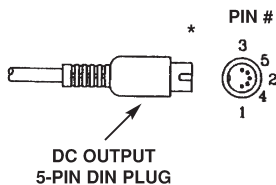
OUTPUT VOLTAGE & CURRENT RATINGS													HUP80
Max Output Power	Output #1				Output #2				Output #3				Model Number
	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol. ⁽¹⁾	Vnom	Imin	Imax	Tol. ⁽¹⁾	
50 W	3.3 V	0.0 A	15.1 A	5%									HUP80-00
65 W	5.0 V	0.0 A	13.0 A	5%									HUP80-10
70 W	7.0 V	0.0 A	9.9 A	4%									HUP80-10-1
75 W	10.0 V	0.0 A	7.5 A	3%									HUP80-11
80 W	12.0 V	0.0 A	6.6 A	3%									HUP80-12
80 W	15.0 V	0.0 A	5.3 A	3%									HUP80-13
80 W	18.0 V	0.0 A	4.4 A	3%									HUP80-13-1
80 W	24.0 V	0.0 A	3.3 A	2%									HUP80-14
80 W	30.0 V	0.0 A	2.7 A	2%									HUP80-16
80 W	36.0 V	0.0 A	2.2 A	2%									HUP80-17
80 W	48.0 V	0.0 A	1.7 A	2%									HUP80-18
60 W	+5.0 V	0.5 A	7.0 A	5%	+12 V	0.3 A	3.0 A	5%					HUP80-23
60 W	+5.0 V	0.5 A	7.0 A	5%	+15 V	0.1 A	3.0 A	5%					HUP80-24
60 W	+5.0 V	0.5 A	7.0 A	5%	+24 V	0.2 A	2.0 A	5%					HUP80-25
60 W	+5.0 V	0.5 A	7.0 A	5%	-24 V	0.2 A	2.0 A	5%					HUP80-25-1
38 W	+3.3 V	0.5 A	7.0 A	5%	+5 V	0.1 A	3.0 A	5%					HUP80-26
56 W	+3.3 V	0.5 A	7.0 A	5%	+12 V	0.1 A	2.7 A	5%					HUP80-27
65 W	+5.0 V	0.5 A	6.0 A	5%	+12 V	0.1 A	2.7 A	5%	-5 V	0.1 A	0.3 A	5%	HUP80-30
59 W	+5.0 V	0.5 A	6.0 A	5%	+12 V	0.1 A	2.1 A	5%	-12 V	0.1 A	0.3 A	5%	HUP80-31
65 W	+5.0 V	0.5 A	6.0 A	5%	+15 V	0.1 A	2.1 A	5%	-15 V	0.1 A	0.2 A	5%	HUP80-32
63 W	+3.3 V	0.5 A	7.0 A	5%	+12 V	0.1 A	3.0 A	5%	-5 V	0.1 A	0.8 A	5%	HUP80-36-1
65 W	+3.3 V	0.5 A	7.0 A	5%	+12 V	0.1 A	3.0 A	5%	-12 V	0.1 A	0.8 A	5%	HUP80-36-3
65 W	+5.0 V	0.5 A	6.0 A	5%	+24 V	0.1 A	1.2 A	5%	-12 V	0.1 A	0.4 A	5%	HUP80-39
65 W	+5.0 V	0.5 A	7.0 A	5%	+24 V	0.1 A	2.0 A	5%	-24 V	0.1 A	0.5 A	5%	HUP80-39-1

Notes

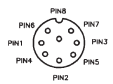
1. Total regulation includes tolerance, line regulation and load regulation.
2. For optional On/Off switch, add suffix 'S' to model number.

Mechanical Details

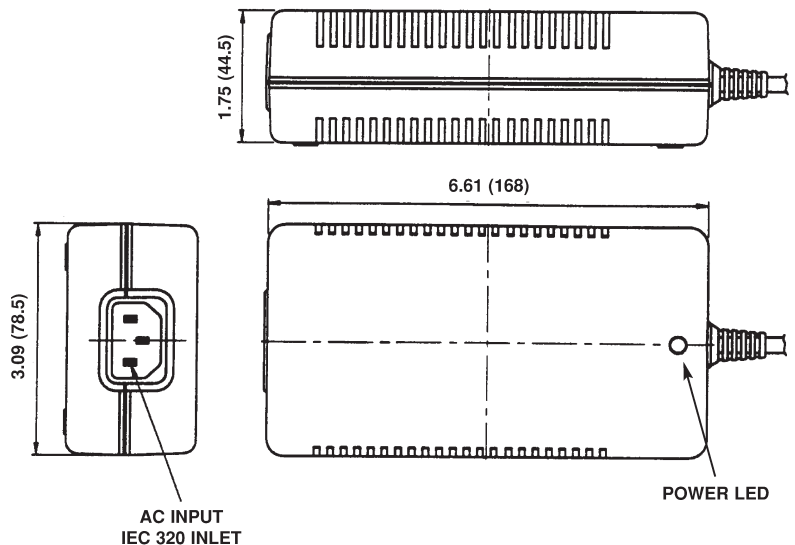
PIN CONNECTIONS 5-Pin is Standard			
Pin	Single	Dual	Triple
1	Common	Common	Common
2	Common	Common	Common
3	Output	Output #1	Output #1
4	Common	Common	Output #3
5	Output	Output #2	Output #2



For HUP80-00 and HUP80-10 only:
Output connector is an 8-pin DIN connector.
Pin 3, 5, 7 and 8 are +Vout. Pins 1, 2, 4 and 6 are Common.



8-Pin DIN for HUP80-00,
-10 Only



NOTES:

1. Dimensions shown in inches (mm).
2. Tolerance 0.04" (1.0mm) maximum.
3. Cable length is 48.0".
4. Optional output connectors available consult factory.
5. Weight: 400-500 g approx.
6. Multiple output models include a ferrite bead on the output cable.