

AC/DC Desktop

XPiQ inc.

Intelligent Design Quality Product



45 Watts
HUP45 Series



- Built-in EMI Filter
-
- 100% Burn-in
-
- Input Surge Current Protection
-
- CE Mark
-
- Approved to UL, CSA and TUV Safety Standards
-
- Short Circuit Protection

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* • 1.2A maximum

Output

- Output Voltage:* • See Tables
- Output Current* • See Tables
- Output Power Range* • 0 to 50 Watts
- Ripple and Noise* • 1% peak to peak max.
- 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* • 16msec minimum

- Line Regulation* • $\pm 0.5\%$ maximum at full load
- Inrush Current* • 15A at 115 VAC or 30A 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* • 100 Mohm minimum from output to ground

Environmental

- Operating Temperature* • 0°C to +70°C*
- Storage Temperature* • -40°C to +85°C
- MTBF* • 100,000 hours minimum at full load at 25°C ambient
- EMI Requirement* • Meets conducted and radiated limits of
 - a) FCC part 15 Level B
 - b) CISPR 22 Class B
- Safety Requirements* • Approved to:
 - a) UL 1950
 - b) CSA C22.2 No. 234 per cUL
 - c) EN60950

* Derate linearly from 100% load at 40°C to 50% load at 70°C



OUTPUT VOLTAGE & CURRENT RATINGS

HUP45

Model	Output #1				Output #2				Output #3				Maximum Output Power
	Vnom	Imin	I _{max}	Tol.	Vnom	Imin	I _{max}	Tol.*	Vnom	Imin	I _{max}	Tol.*	
HUP45-02	2.5 V	0.0 A	8.0 A	5%									20 W
HUP45-00	3.3 V	0.0 A	8.0 A	5%									26 W
HUP45-10	5.0 V	0.0 A	8.0 A	5%									40 W
HUP45-10-1	7.0 V	0.0 A	6.0 A	4%									42 W
HUP45-11	10.0 V	0.0 A	4.5 A	3%									45 W
HUP45-12	12.0 V	0.0 A	3.7 A	3%									44 W
HUP45-13	15.0 V	0.0 A	2.9 A	3%									44 W
HUP45-13-1	18.0 V	0.0 A	2.4 A	3%									44 W
HUP45-14	24.0 V	0.0 A	2.0 A	2%									48 W
HUP45-16	30.0 V	0.0 A	1.7 A	2%									50 W
HUP45-17	36.0 V	0.0 A	1.4 A	2%									50 W
HUP45-18	48.0 V	0.0 A	1.0 A	2%									50 W
HUP45-21	+12.0 V	0.5 A	3.0 A	5%	-12 V	0.2 A	1.0 A	5%					42 W
HUP45-22	+12.0 V	0.5 A	2.0 A	5%	-15 V	0.2 A	1.0 A	5%					42 W
HUP45-23	+5.0 V	0.5 A	5.0 A	5%	+12 V	0.2 A	2.0 A	5%					42 W
HUP45-24	+5.0 V	0.5 A	5.0 A	5%	+15 V	0.2 A	1.5 A	5%					42 W
HUP45-25	+5.0 V	0.5 A	5.0 A	5%	+24 V	0.1 A	1.0 A	5%					42 W
HUP45-25-1	+5.0 V	0.5 A	5.0 A	5%	-24 V	0.1 A	1.0 A	5%					42 W
HUP45-26	+3.3 V	0.5 A	5.0 A	5%	+5 V	0.1 A	2.0 A	5%					27 W
HUP45-27	+3.3 V	0.5 A	5.0 A	5%	+12 V	0.2 A	2.0 A	5%					40 W
HUP45-30	+5.0 V	0.5 A	5.0 A	5%	+12 V	0.2 A	2.0 A	5%	-5 V	0 A	0.8 A	5%	42 W
HUP45-31	+5.0 V	0.5 A	5.0 A	5%	+12 V	0.2 A	2.0 A	5%	-12 V	0 A	0.8 A	5%	42 W
HUP45-32	+5.0 V	0.5 A	5.0 A	5%	+15 V	0.2 A	2.0 A	5%	-15 V	0 A	0.8 A	5%	42 W
HUP45-36-1	+3.3 V	0.5 A	5.0 A	5%	+12 V	0.2 A	2.0 A	5%	-5 V	0 A	0.8 A	5%	40 W
HUP45-36-3	+3.3 V	0.5 A	5.0 A	5%	+12 V	0.2 A	2.0 A	5%	-12 V	0 A	0.8 A	5%	42 W
HUP45-39	+5.0 V	0.5 A	5.0 A	5%	+24 V	0.1 A	1.0 A	5%	-12 V	0 A	0.8 A	5%	42 W
HUP45-39-1	+5.0 V	0.5 A	5.0 A	5%	+24 V	0.1 A	1.0 A	5%	-24 V	0 A	0.5 A	5%	42 W

*Total regulation includes tolerance, line regulation and load regulation.

Mechanical Details

PIN CONNECTIONS			
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

NOTES:

1. Dimensions shown in inches (mm).
2. Tolerance 0.04 (1.0) maximum.
3. Cable length is 48.0".
4. Optional output connectors available, consult factory.
5. Weight: 350-400 grams approx.
6. Multiple output models include a ferrite bead on the output connector.

