

AC/DC External Desktop

130 Watts AEH130 Series

XPiQ inc.

Intelligent Design Quality Product



Active PFC - Meets EN61000-3-2, -3

Single & Dual Outputs

Overvoltage & Overcurrent Protection

75ms Hold Up Time

Wide Input Voltage 90-264 VAC

International Safety Approvals

Specification

Input

- Input Voltage* • 90-264 VAC
- Input Frequency* • 47-63 Hz
- Power Factor* • 0.96 at 230 VAC, 0.99 at 110 VAC
- Inrush Current* • 30 A max at 115 VAC, 60 A max at 230 VAC
- Input Current* • 3.2 A max at 115 VAC, 1.7 A max at 230 VAC

Output

- Output Voltage* • See Tables
- Output Power* • 130 Watts
- Minimum Load* • 0 minimum for single output models
See table for multiple output models
- Line Regulation* • $\pm 1\%$ maximum
- Load Regulation* • See Table
- Ripple & Noise* • 2% pk-pk maximum
- Transient Response* • 4% max deviation, 500 us recovery time for a 25% load change
- Temperature Coefficient* • $\pm 0.04\%/^{\circ}\text{C}$
- Hold up Time* • >75ms min at full load, 100 VAC
- Overvoltage Protection* • On output #1 only
112% to 132% of nominal,
recycle input to reset
- Overcurrent Protection* • On all outputs 110% to 150%
with auto recovery

General

- Efficiency* • 80% typical
- MTBF* • 100,000 hours minimum at full load at 25°C ambient
- Isolation Voltage* • 3000 VAC input to output
1500 VAC input to ground
500 VAC output to ground
- Size* • 7.71" x 3.46" x 1.99"
- Weight* • 860 grams approx.

Environmental

- Operating Temperature* • 0°C to 70°C
Derate linearly from 100% load at 40°C to 50% load at 70°C
- Cooling* • Thermostat controlled internal fan
- Humidity* • 5 to 95% RH, non-condensing
- Storage Temperature* • -40°C to +85°C

EMC and Safety

- EMC* • Meets EN61000-3-2, -3
EN55022/CISPR22 Class B and FCC Part 15 Level B conducted & radiated
- Safety* • UL 1950, CSA C22.2 No. 234 per cUL, EN60950, CE Mark
- Immunity & Surge* • Meets EN61000-4-2, -3, -4, -5, -6, -8, & 11
- Warranty* • 1 Year

OUTPUT VOLTAGE & CURRENT RATINGS - SINGLE OUTPUT

AEH130

Max Power	Output Current		Output Voltage	Total Regulation ⁽¹⁾	Model Number ⁽³⁾
	I _{min}	I _{max}			
90 W	0 A	27.27 A	3.3 V	7%	AEH130PS3V3
115 W	0 A	23.00 A	5.0 V	7%	AEH130PS05
130 W	0 A	18.57 A	7.0 V	7%	AEH130PS07
130 W	0 A	14.44 A	9.0 V	5%	AEH130PS09
130 W	0 A	10.83 A	12.0 V	5%	AEH130PS12
130 W	0 A	8.65 A	15.0 V	5%	AEH130PS15
130 W	0 A	7.22 A	18.0 V	5%	AEH130PS18
130 W	0 A	5.41 A	24.0 V	5%	AEH130PS24
130 W	0 A	4.64 A	28.0 V	5%	AEH130PS28
130 W	0 A	3.61 A	36.0 V	5%	AEH130PS36
130 W	0 A	2.70 A	48.0 V	3%	AEH130PS48
130 W	0 A	2.40 A	54.0 V	3%	AEH130PS54

OUTPUT VOLTAGE & CURRENT RATINGS - DUAL OUTPUT

AEH130

Max Power	Output 1				Output 2				Model Number
	V _{nom}	I _{min}	I _{max}	Tol. ⁽¹⁾	V _{nom}	I _{min}	I _{max}	Tol. ⁽¹⁾	
90 W	+3.3 V	0.5 A	20.0 A	7%	+12 V	0.2 A	2.0 A	5%	AEH130PD01
120 W	+5.0 V	0.5 A	20.0 A	7%	+12 V	0.2 A	2.0 A	5%	AEH130PD02
120 W	+5.0 V	0.5 A	20.0 A	7%	+15 V	0.2 A	2.0 A	5%	AEH130PD03
120 W	+5.0 V	0.5 A	20.0 A	7%	+24 V	0.2 A	2.0 A	5%	AEH130PD04

Notes

1. Total regulation includes tolerance, line regulation and load regulation.
2. Other output voltages available. Consult factory.
3. Part numbers in bold type are standard stock models, all others are build to order.

Mechanical Details

Top View Dimensions: 7.71 (196.0) inches width, 3.46 (88.0) inches height.

Side View Dimensions: 1.14 (29.0) inches height, 0.65 (16.5) inches thickness.

Rear View Labels: SWITCHING POWER SUPPLY, Power LED, AC Input IEC 320 INLET.

DC Output 8-Pin Din Plug

Pin	Single	Dual
1	Common	Common
2	Common	Output #2
3	Output #1	Output #1
4	Common	Output #2
5	Output #1	Output #1
6	Common	Common
7	Output #1	Output #1
8	Output #1	Common
Shell	Ground	Ground

Notes:

1. Dimensions are shown in inches (mm).
2. Weight: 860g approx.
3. Optional output connectors available, contact technical sales.
4. Cable length is 48".