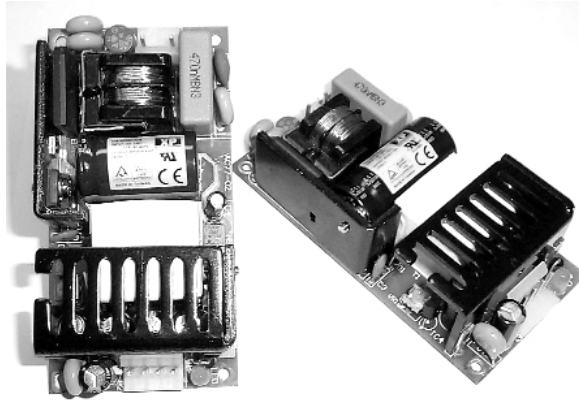


AC/DC Open Frame

40-60 Watts ACS40/60 Series

XPiQ inc.

Intelligent Design Quality Product



Small 2" x 4" Footprint

High Efficiency to 88%

Single Outputs from 3.3V to 48V

Industry Standard Pinout

International Safety Approvals

CE Marked for LVD

Specification

Input

Input Voltage	• 90-264 VAC
Input Frequency	• 47-63 Hz
Inrush Current	• 25A at 115 VAC, 50A max at 230 VAC
Input Current	• 1.6 A max at 115 VAC, 1.0 A max at 230 VAC

Output

Output Voltage	• 3.3 to 48 VDC, See table
Output Power	• 40 or 60 Watts
Minimum Load	• 0 minimum load required
Line Regulation	• $\pm 0.5\%$ from low line to high line
Load Regulation	• $\pm 1\%$ maximum
Tolerance	• $\pm 1\%$
Ripple & Noise	• $\pm 1\%$ max (pk-pk), 50 mV for 3.3V
Transient Response	• 4% max deviation, 500 μ s recovery time for a 25% load change
Temperature Coefficient	• 0.05%/°C
Hold Up Time	• 8 ms at low line
Short Circuit Protection	• Protected to short circuit conditions
Switching Frequency	• 50-70 KHz

General

Efficiency	• See table
Power Density	• 6.28 W/in ³ for ACS60, 4.1 W/in ³ for ACS40
MTBF	• 100,000 hrs minimum
Withstand Voltage	• 3000 VAC Input to Output 1500 VAC Input to Ground 500 VAC Output to Ground
Size	• 2" x 4" x 1.2"
LED Indicator	• DC OK LED
Switching Frequency	• 50-70 KHz

Environmental

Operating Temperature	• 0°C to 60°C with derating See derating charts
Cooling	• Convection cooled
Storage Temperature	• -40°C to +85°C

Safety and EMC

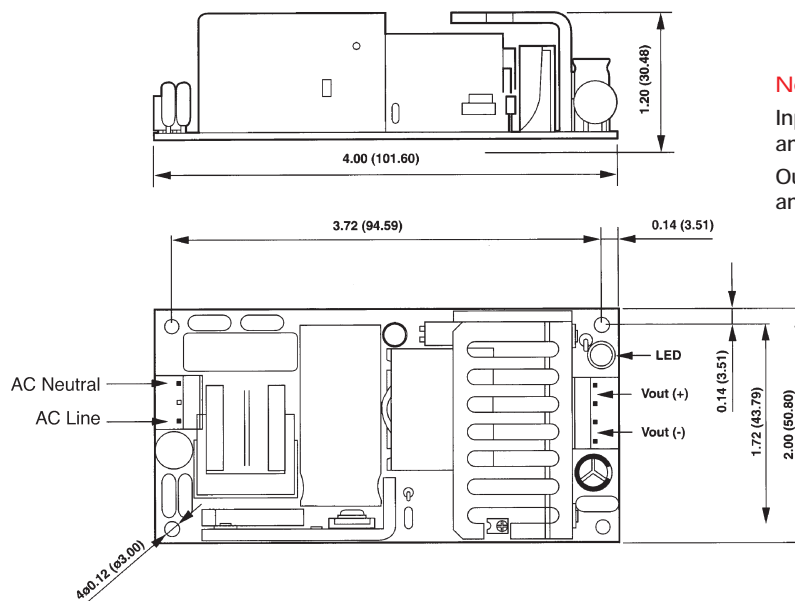
Safety Approvals	• UL1950, CSA C22.2 No 234, EN60950, CE Mark LVD
EMI/EMC	• EN55022 Class B and FCC 20780 Level B conducted meets EN50082-2 (EN61000-4-2, -3, -4, -6, -8)

OUTPUT VOLTAGE & CURRENT RATINGS					ACS40/60
Max Power	Output Voltage	Output Current	Peak Current	Efficiency	Model Number
20 W	3.3 V	6.0 A	7.20 A	74%	ACS40US03
30 W	5.0 V	6.0 A	7.20 A	78%	ACS40US05
40 W	9.0 V	4.45 A	5.34 A	82%	ACS40US09
40 W	12.0 V	3.34 A	4.00 A	84%	ACS40US12
40 W	15.0 V	2.67 A	3.20 A	85%	ACS40US15
40 W	24.0 V	1.67 A	2.00 A	86%	ACS40US24
40 W	30.0 V	1.33 A	1.60 A	86%	ACS40US30
40 W	36.0 V	1.11 A	1.33 A	87%	ACS40US36
40 W	48.0 V	0.83 A	1.00 A	88%	ACS40US48
26 W	3.3 V	8.0 A	8.50 A	74%	ACS60US03
40 W	5.0 V	8.0 A	9.00 A	78%	ACS60US05
60 W	9.0 V	6.67 A	8.00 A	82%	ACS60US09
60 W	12.0 V	5.0 A	6.00 A	84%	ACS60US12
60 W	15.0 V	4.0 A	4.80 A	85%	ACS60US15
60 W	24.0 V	2.5 A	3.00 A	86%	ACS60US24
60 W	30.0 V	2.0 A	2.40 A	86%	ACS60US30
60 W	36.0 V	1.67 A	2.00 A	87%	ACS60US36
60 W	48.0 V	1.25 A	1.50 A	88%	ACS60US48

Notes

1. Part numbers in **BOLD** type are standard stock models, all others are build to order.
2. For optional cover kit order part number ACS40-60 cover. To order cover attached to the supply, add -C to part number.
3. Peak current lasting <30 seconds with a max duty cycle of 10%.

Mechanical Details



Note:

Input connector mates with Molex 09-50-3031 and 2878 series crimp terminals.
Output Connector mates with Molex 09-50-3041 and 2878 series crimp terminals.

All dimensions in inches (mm).

Derating Curves

