



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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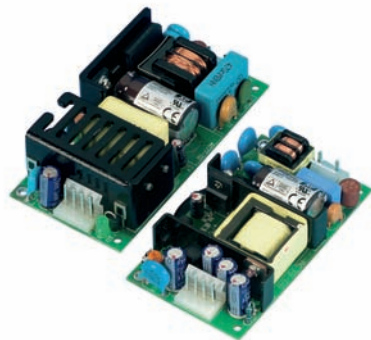
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# 40-60 Watts

## ACS Series



- Low Cost
- Small Size
- Universal Input
- Rugged Design
- High MTBF
- International Safety Approvals
- Covered Versions Available

### Specification

#### Input

Input Voltage	• 90-264 VAC (110-370 VDC)
Input Frequency	• 47-63 Hz
Input Current	• ACS40: 0.45 A rms at 230 VAC ACS60: 0.60 A rms at 230 VAC
Inrush Current	• Cold start at 25 °C: 25 A at 115 VAC, 50 A at 230 VAC
Earthing	• Class I

#### Output

Output Voltage	• See table
Hold Up Time	• 8 ms typical at full load
Line Regulation	• 0.5% max at full load
Load Regulation	• 1.0% max at 10% load to full load
Ripple & Noise	• 1% max pk-pk, 20MHz BW
Overvoltage Protection	• Typically 130% of max output
Overcurrent Protection	• 120% typical

#### General

Efficiency	• See tables
Isolation	• 3000 VAC Input to Output 1500 VAC Input to Ground 500 VAC Output to Ground
Switching Frequency	• 50-70 kHz
MTBF	• 230 kHrs per MIL-HDBK-217F

#### Environmental

Operating Temperature	• 0 °C to +70 °C, derate from full load at +50 °C to half load at +60 °C. Reduce both temperatures by 10 °C when cover is fitted
Storage Temperature	• -40 °C to +85 °C

#### EMC & Safety

Emissions	• FCC20780 Level B, CISPR22 (EN55022), level B conducted
ESD Immunity	• EN61000-4-2, level 3 Perf Criteria A
Radiated Immunity	• EN61000-4-3, 10 V/m Perf Criteria A
EFT/Burst	• EN61000-4-4, level 2 Perf Criteria A
Surge	• EN61000-4-5, level 3 Perf Criteria A
Conducted Immunity	• EN61000-4-6, 10 V Perf Criteria y
Safety Approvals	• EN60950, UL1950, CSA22.2 No. 234

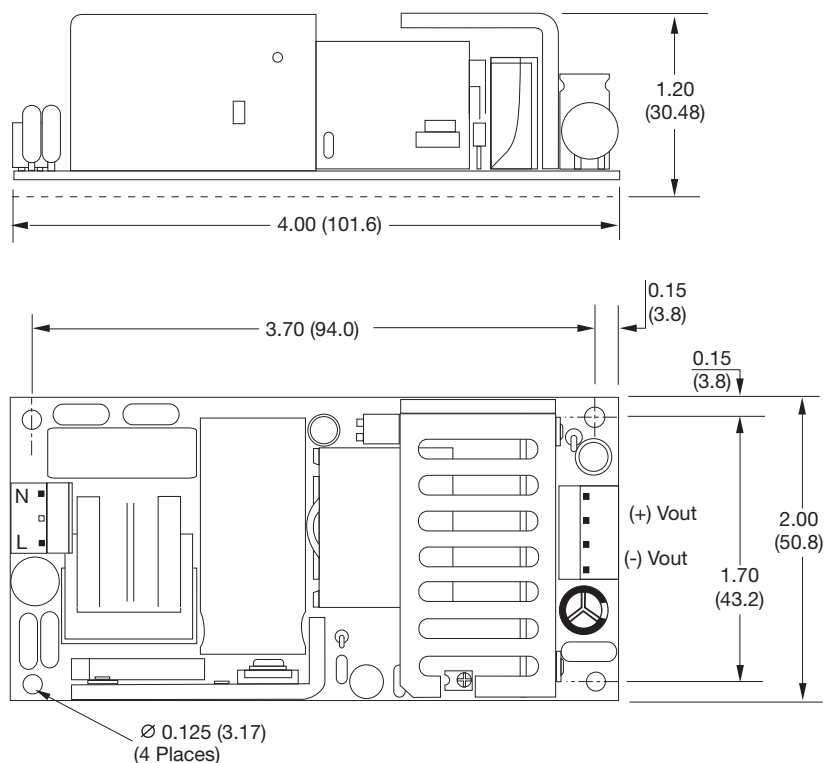
## Models and Ratings

Output Power	Output Voltage	Output Current		Efficiency	Model Number
		Nominal	Peak <sup>(1)</sup>		
40 W	3.3 V	6.000 A	7.200 A	74%	ACS40US03
	5.0 V	6.000 A	7.200 A	78%	ACS40US05
	9.0 V	4.450 A	5.340 A	82%	ACS40US09
	12.0 V	3.340 A	4.000 A	84%	ACS40US12
	15.0 V	2.670 A	3.200 A	85%	ACS40US15
	24.0 V	1.670 A	2.000 A	86%	ACS40US24
	36.0 V	1.110 A	1.330 A	87%	ACS40US36
	48.0 V	0.834 A	1.000 A	88%	ACS40US48
60 W	3.3 V	8.000 A	8.500 A	74%	ACS60US03
	5.0 V	8.000 A	9.000 A	78%	ACS60US05
	9.0 V	6.670 A	8.000 A	82%	ACS60US09
	12.0 V	5.000 A	6.000 A	84%	ACS60US12
	15.0 V	4.000 A	4.800 A	85%	ACS60US15
	24.0 V	2.500 A	3.000 A	86%	ACS60US24
	36.0 V	1.670 A	2.000 A	87%	ACS60US36
	48.0 V	1.250 A	1.500 A	88%	ACS60US48

## Notes

1. Peak load lasting <30 s with a maximum duty cycle of 10%.

## Mechanical Details



## Notes

1. All dimensions shown in inches (mm).
2. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.
3. Loom kits with 300 mm wire available. Order part number ACS40/60 LOOM KIT.
4. For mating connectors only, order part number ACS20-60 CONKIT.
5. Covers available. Order part number ACS40/60 COVER (114 x 64 x 38.5mm). To receive unit with cover fitted, add suffix '-C' to model number.