

## AM012L Series

12W, AC-DC integrated converter



### FEATURES

- Universal Input : 100 - 240VAC
- Operating temperature range: -20°C to +60°C
- High isolation voltage up to 3K VAC
- Regulated output, Low ripple & noise
- Output short circuit, over-current protection
- High efficiency, high reliability
- Plastic case, meets UL94V-0
- EMI performance meets EN55032 CLASS B
- Min 100,000 Hours life @Ta=25 °C

### Selection Guide

Certification	Part No.	Output Power	Output Voltage	Output Current	Efficiency
FCC / CE	AM012L-VU0500240-YO	12W	5.0-5.2V	0-2.4A	82%
	AM012L-VU1200100-YO	12W	12-12.2V	0-1A	83%
	AM012L-YU2400050-YO	12W	24-24.2V	0-0.5A	85%

### Input Specification

Item	Operating Condition	Min.	Typ.	Max.	Unit
Input Voltage Range	AC input	100	-	240	VAC
Input Frequency		47	-	63	Hz
Input Current	115VAC	-	0.26	0.31	A
	230VAC	-	0.16	0.19	A
Inrush Current	115VAC	-	10	-	A
	230VAC	-	32	-	A
Hot Plug	Not available				

### Output Specification

Item	Operating Condition	Min.	Typ.	Max.	Unit
Output Voltage Range	AM012L-VU0500240-YO	5	5.1	5.2	VDC
	AM012L-VU1200100-YO	12	12.1	12.2	VDC
	AM012L-YU2400050-YO	24	24.1	24.2	VDC
Ripple & Noise	AM012L-VU0500240-YO	80			mVp-p
	AM012L-VU1200100-YO	80			mVp-p
	AM012L-YU2400050-YO	100			mVp-p
Over current / Short Circuit Protection	≥ 110%-150% Io self-recovery				

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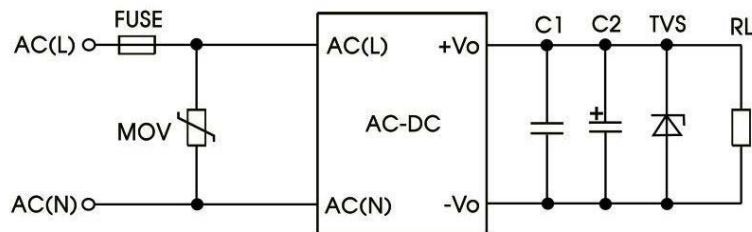
### General Specification

Item	Operating Condition	Min.	Typ.	Max.	Unit
Operating Temperature		-20		60	°C
Storage Temperature		-20		80	°C
Storage Humidity		10%		95%	RH
Welding Temperature	Wave-soldering	260 ± 5°C; time: 5 - 10s			
	Manual-soldering	360 ± 10°C; time: 3 - 5s			
Switching Frequency		500			KHz
Safety Standard	EN60065:2014				
Safety-regulated Certification	Meets FCC Part 15B:2016; EN55035:2017; EN61000-3-2:2014; EN61000-3-3:2013; EN55032:2015				
Safety Class	CLASS II				

### Physical Specification

Case Material	Black plastic UL94 V-0
Dimension	38*25*23 mm
Weight	38 grams
Cooling method	Free air

### Typical application circuit:



### Dimension: unit mm

