

FEATURES:



- Input: 85-264VAC, 47-440Hz or 70-400VDC
- Operating temperature -40°C to +85°C
- Low power consumption $\leq 0.5W$
- Continuous short circuit protection
- I/O Isolation 3000VAC
- Ultra slim open frame SIP
- Over current protection
- Class II power supply

Models
Single output



Model	Input Voltage (VAC/Hz)	Input Voltage (VDC)	Full power temperature range (°C)	Output Voltage (V)	Output Current max (mA)	Maximum capacitive load (μF)	Efficiency (%)
AMEOF1-5SJZ	85-264/47-440	70-400	-20 to +55	5	200	220	66
AMEOF1-9SJZ	85-264/47-440	70-400	-20 to +55	9	111	100	67
AMEOF1-12SJZ	85-264/47-440	70-400	-20 to +55	12	83	100	70
AMEOF1-15SJZ	85-264/47-440	70-400	-20 to +55	15	67	100	69
AMEOF1-24SJZ	85-264/47-440	70-400	-20 to +55	24	42	100	68

NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Current	115VAC		120	mA
	230VAC		60	mA
Inrush current <2ms	115VAC	9		A
	230VAC	15		A
External fuse	Recommended slow blow type	1		A
Input dissipation	No Load		0.5	W
Input filter	Recommended external π (Pi) filter			

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy	Full load, 5V output		± 8	%
	Full load, others		± 5	
Line regulation	Full load	± 1.5		%
Load regulation	5% - 100% load	± 2.5		%
Ripple & Noise	20MHz Bandwidth		120	mV p-p
Hold-up time (min)	115VAC	40		ms
	230VAC	180		ms
Minimum load current		5		% of Max

Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	60 sec		3000	VAC
Isolation Resistance		>1000		M Ω

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency		60		KHz
Over current protection	Auto-recovery	≥ 110		% of I out
Short circuit protection		Continuous		
Short circuit restart		Auto-recovery		
Operating temperature	See derating curve	-40 to +85		°C
Storage temperature		-40 to +105		°C

General Specifications (continued)

Parameters	Conditions	Typical	Maximum	Units
Temperature coefficient		±0.15		% / °C
Cooling	Free air convection			
Humidity			85	% RH
Weight		7		g
Dimensions (L x W x H)		1.38 x 0.71 x 0.43 inches	35 x 18 x 11 mm	
MTBF		>200,000 hours (MIL-HDBK -217F, Ground Benign, t=+25°C)		

Safety Specifications

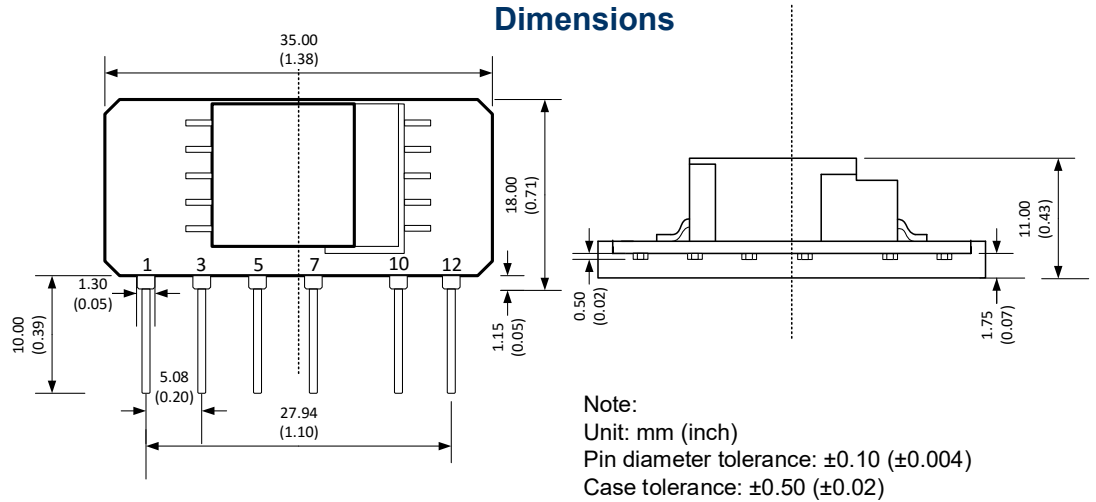
Parameters	
Standards	Meets IEC 60950-1 EN 55022, Class A & B, with external filter circuits, as referenced IEC 61000-4-2, Contact ±4KV, Criteria B IEC 61000-4-3, 10V/m, Criteria A, with Class B external filter, as referenced IEC 61000-4-4, ±2KV/±4KV, Criteria B, with Class A/B external filter referenced IEC 61000-4-5, ±1KV/±2KV, Criteria B, with Class A/B external filter referenced IEC 61000-4-6, 10Vrms, Criteria A, with Class B external filter, as referenced IEC 61000-4-8, 10A/m, Criteria A IEC 61000-4-11, 0-70%, Criteria B

Pin Out Specifications*

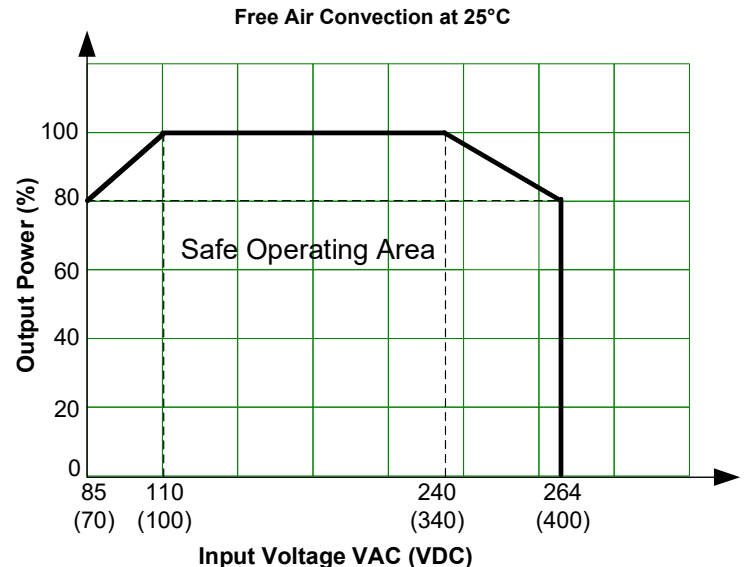
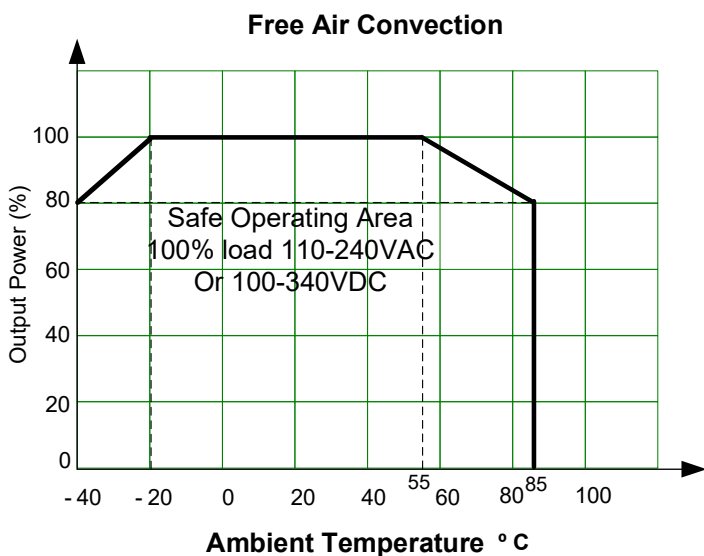
Pin	Single
1	AC N
3	AC L
5	+V sc
7	-V sc
10	-V Output
12	+V Output

* Add capacitor between pin 5 & 7.
Application circuit below.

Dimensions



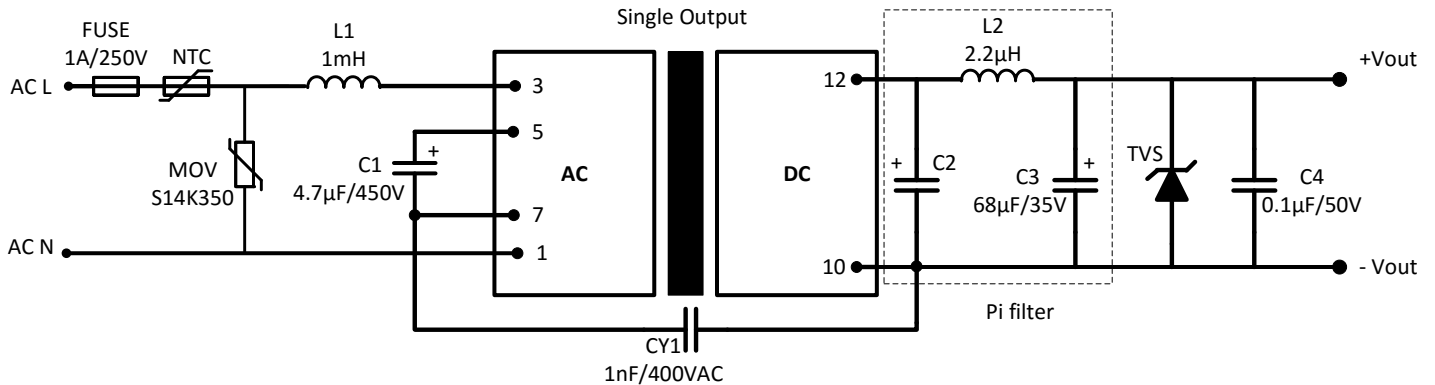
Derating*



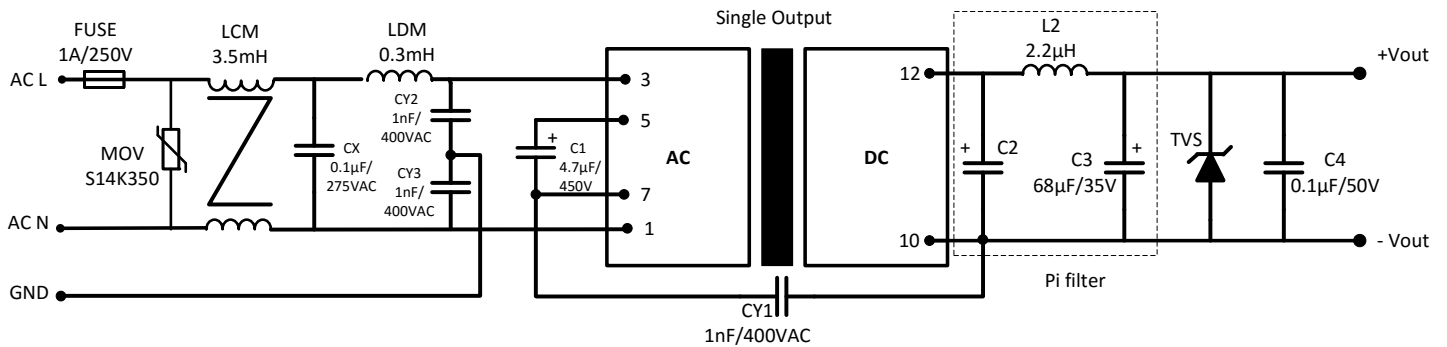
*Power derating: -40 to -20 increase 1%/°C

55 to 85 decrease 0.67%/°C

Recommended EMC class A external circuit:



Recommended EMC class B external circuit:



Model	C2	TVS
5 Vout	150 µF /	7V
9 Vout	35V	12V
12 & 15 Vout	100 µF /	20V
24 Vout	35V	30V

Note: For Safety compliance we recommend minimum PCB trace distance of 3mm, minimum distance between PCB traces of 6mm, primary to secondary

circuit traces distance between minimum of 6.4mm.

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