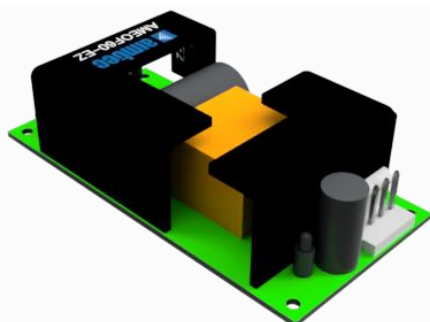


AMEOF60-EZ

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Open Frame

The AMEOF60-EZ series is one of Aimtec's compact size open frame 60W AC/DC converter. It features universal AC input of 90 - 264VAC and at the same time accepts a DC input voltage range of 120 - 370VDC. Furthermore, the AMEOF60-EZ has a low power consumption, high efficiency up to 88%, high reliability and reinforced isolation of 3000VAC.

It offers an EMC compliance of EN55024 and EN55032 and meets EN 62368-1 standards. The converters also include output short circuit, over-current and over-voltage protection.

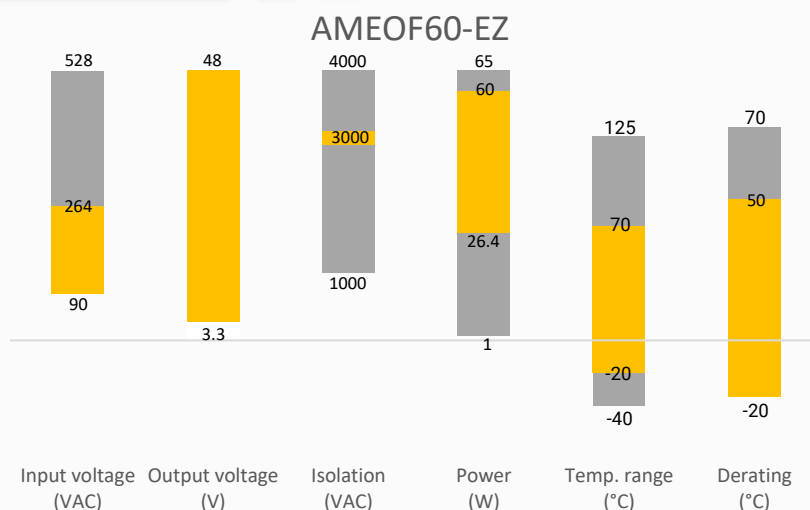
These converters are widely used in industrial, office and civil applications such as modems, printers and telecom devices.

Features

- Universal Input: 90 - 264VAC / 120 - 370VDC
- Operating Temp: -20 °C to +70 °C
- High isolation voltage: 3000VAC
- Low ripple & noise, 240mV(p-p), max.
- Output short circuit, over-current, over-voltage protection
- Regulated Output
- Open frame



Summary



Training



Product Training Video
(click to open)



Press Release

Coming Soon!

Application Notes

Applications



Power Grid



Industrial



Telecom



Instrumentation

Models & Specifications

Single Output

Model	Input Voltage (VAC/Hz)	Input Voltage (VDC)	Max Output wattage (W)	Output Voltage (V)	Output Current max (A)	Maximum capacitive load (μF)	Efficiency Typ. (%)
AMEOF60-3SEZ	90-264/47-63	120-370	26.4	3.3	8	20000	70
AMEOF60-5SEZ	90-264/47-63	120-370	40	5	8	20000	80
AMEOF60-9SEZ	90-264/47-63	120-370	60	9	6.67	10000	81
AMEOF60-12SEZ	90-264/47-63	120-370	60	12	5	8000	85
AMEOF60-15SEZ	90-264/47-63	120-370	60	15	4	6500	85
AMEOF60-24SEZ	90-264/47-63	120-370	60	24	2.5	1200	87
AMEOF60-27SEZ	90-264/47-63	120-370	60	27	2.2	1100	87
AMEOF60-36SEZ	90-264/47-63	120-370	60	36	1.67	800	87
AMEOF60-48SEZ	90-264/47-63	120-370	60	48	1.25	600	88

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Inrush current	100VAC	--	25	A
	240VAC	--	50	A
Input fuse	3.15A/250V			

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy	3.3V, 5V output models	--	±3	%
	Others	--	±2	%
Line regulation	Full load	±1	--	%
Load regulation	0-100% load	±2	--	%
Ripple & Noise*	3.3V, 5V, 9V output models	--	100	mV p-p
	12V, 15V output models	--	150	mV p-p
	Others	--	240	mV p-p
Start-up time	115VAC	--	1500	ms
	230VAC	--	500	ms
Hold up time	115VAC	12	--	ms
	230VAC	60	--	ms

* Ripple and Noise are measured at 20MHz bandwidth. Open frame models are measured with a 47μF electrolytic capacitor and a 0.47μF high-frequency capacitor across each output by full load.

Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	5 sec, leakage current < 5mA	--	3000	VAC
Resistance I/O*	500VDC	>100	--	MΩ

* Tested under 25 ± 5°C ambient temperature with relative humidity <95% and no condensation.

General Specifications

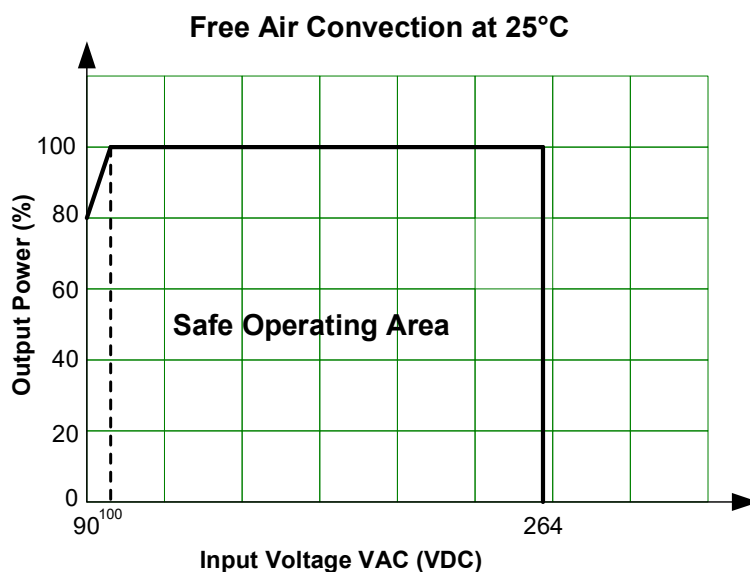
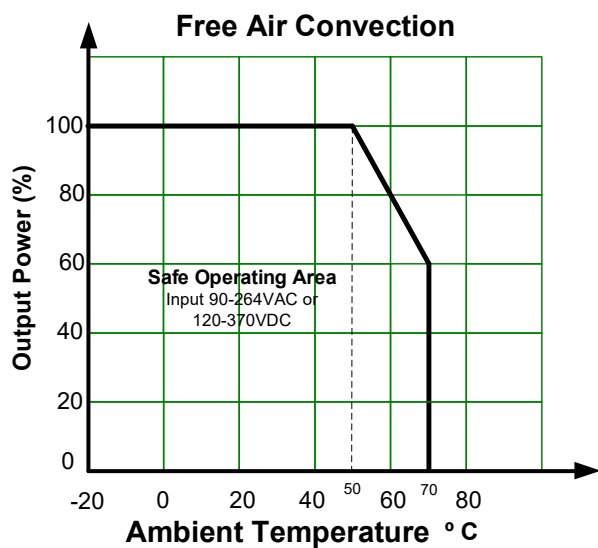
Parameters	Conditions	Typical	Maximum	Units
Over current protection	Auto recovery	≥ 115	150	% of Iout
Over voltage protection	Turn off the output voltage, re-power on to recovery	≥ 120	150	% of Vout
Short circuit protection	Hiccup, Continuous, Auto recovery			
Switching Frequency		65	--	KHz
Operating temperature	See derating graph	-20 to +70	--	°C
Storage temperature	Non-Operational	-40 to +85	--	°C
Power Derating	+50 °C to +70 °C	2	--	%/°C
	90VAC to 100VAC	2	--	%/VAC
Cooling	Free air convection			
Humidity	Non-condensing	--	95	% RH
Weight		145	--	g
Dimensions (L x W x H)	4.00 x 2.00 x 1.22 inches (101.60 x 50.80 x 31.00mm)			
MTBF	> 300 000 hrs (MIL-HDBK -217F, t=+25°C)/Full Load			

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.

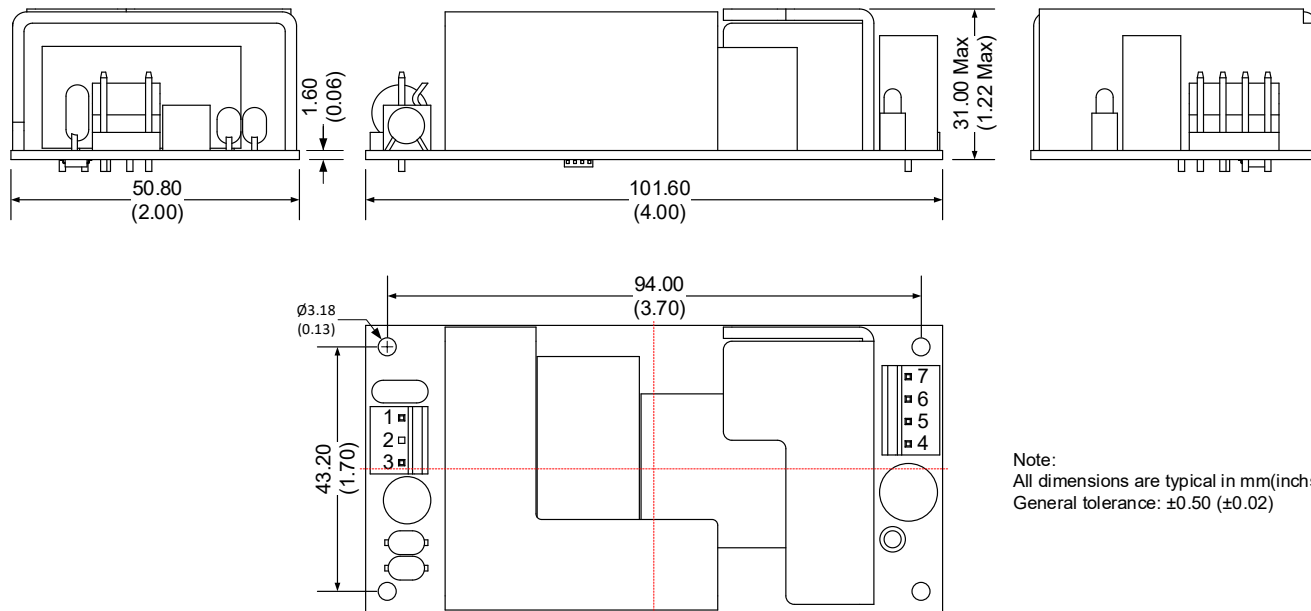
Safety Specifications

Parameters		
Standards	Information technology Equipment	Designed to meet EN 62368-1
	EMC - Conducted and radiated emission	Designed with reference to EN55032 standard
	EMS Immunity	Designed with reference to EN55024 standard

Derating



Dimensions



Pin Output Specifications

Pin	Function
1	AC Input (N)
2	No Pin
3	AC Input (L)
4	-V Output
5	-V Output
6	+V Output
7	+V Output

Pin Connector / Terminal

Pin	Connector / Terminal
1	Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
2	
3	
4	Output connector mates with Molex housing 09-50-3041 and Molex 2478 series crimp terminal.
5	
6	
7	

NOTE: 1. Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheets are no longer controlled by Aimtec; refer to www.aimtec.com for the most current product specifications. 2. Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured. 3. Mechanical drawings and specifications are for reference only. 4. All specifications are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified. 5. Aimtec may not have conducted destructive testing or chemical analysis on all internal components and chemicals at the time of publishing this document. CAS numbers and other limited information are considered proprietary and may not be available for release. 6. This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other the ones listed in this datasheet. 7. Warranty is in accordance with Aimtec's standard Terms of Sale available at www.aimtec.com.