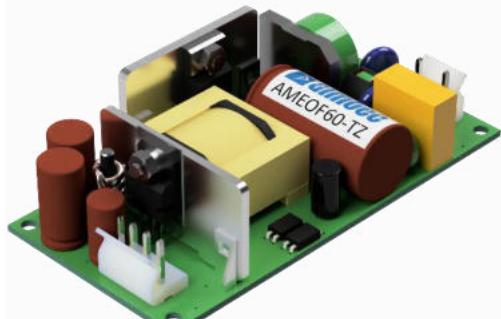


AMEOF60-TZ



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Features



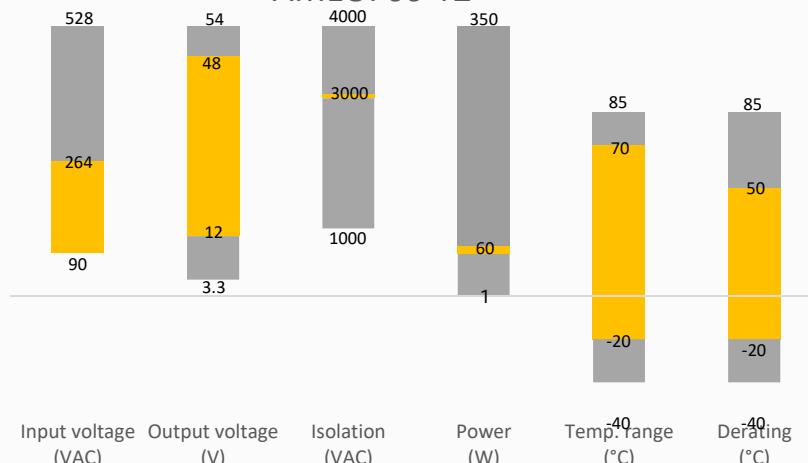
- Universal Input: 90 - 264VAC
- Low leakage current: 3.5mA max
- High isolation voltage: 3000VAC
- Output short circuit, over-current, over-voltage protection
- Certified: CE: EN62368-1, UL62368-1
- Designed to meet EN62368-1 Ed2, IEC60950-1 / IEC62368 Ed2



Summary



AMEOF60-TZ



Training



Press Release

Coming Soon!

Product Training Video
(click to open)

Application Notes

Applications



Power Grid



Industrial



Telecom

Models & Specifications



Model	Input Voltage (VAC/Hz)	Nominal Output wattage (W)	Output Voltage (V)	Output Voltage Adjustable Range (V)	Output Current (A)	Efficiency @230VAC Typ. (%)
AMEOF60-12STZ	90-264/47-63	60	12	10.8-13.2	5.00	87
AMEOF60-24STZ	90-264/47-63	60	24	21.6-26.4	2.50	87
AMEOF60-48STZ	90-264/47-63	60	48	43.2-52.8	1.25	87

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Input current	100VAC		1.4	A (RMS)
Inrush current	115VAC, 25°C cold start		30	A
	230VAC, 25°C cold start		60	A
Leakage	264VAC, single fault condition		3.5	mA

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Line regulation	100% load	±1.0		%
Load regulation	230VAC	±5.0		%
Ripple & Noise*	12V, tested with 1µf and 10µf ceramic capacitors		120	mV p-p
	24V, tested with 1µf and 10µf ceramic capacitors		200	mV p-p
	48V, tested with 1µf and 10µf ceramic capacitors		300	mV p-p
Hold up time	115VAC at maximum load	≥16		ms
	230VAC at maximum load	≥16		ms

* Ripple and Noise are measured at 20MHz bandwidth. Please refer to the application note for specific details.

Isolation Specification

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	60 sec, leakage ≤ 10mA	≥3000		VAC
Tested I/O to case voltage	60 sec, leakage ≤ 10mA	≥1500		VAC
Resistance I/O*	500VDC	>50		MΩ

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

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Protection class	Class II			
Over current protection	12V, Auto recovery		10	A
	24V, Auto recovery		5	A
	48V, Auto recovery		3	A
Over voltage protection	12Vout, if the power supply is protected, it will latch off	>13.5	16	VDC
	24Vout, if the power supply is protected, it will latch off	>26	32	VDC
	48Vout, if the power supply is protected, it will latch off	>51	58	VDC
Short circuit protection	Auto recovery			

Operating temperature	See derating graph	-20 to +70		°C
Storage temperature		-40 to +85		°C
Operating altitude			5000	m
Power Derating	+50 °C to +70 °C	1.67		%/°C
Cooling	Free air convection			
Humidity	Non-condensing, storage	90		% RH
Weight		130		g
Dimensions (L x W x H)		2.00 x 4.00 x 1.10 inches (50.8 x 101.6 x 27.94 mm)		
MTBF	> 100 000 hrs (Telcordia SR-332, issue 2, t=+25°C)			

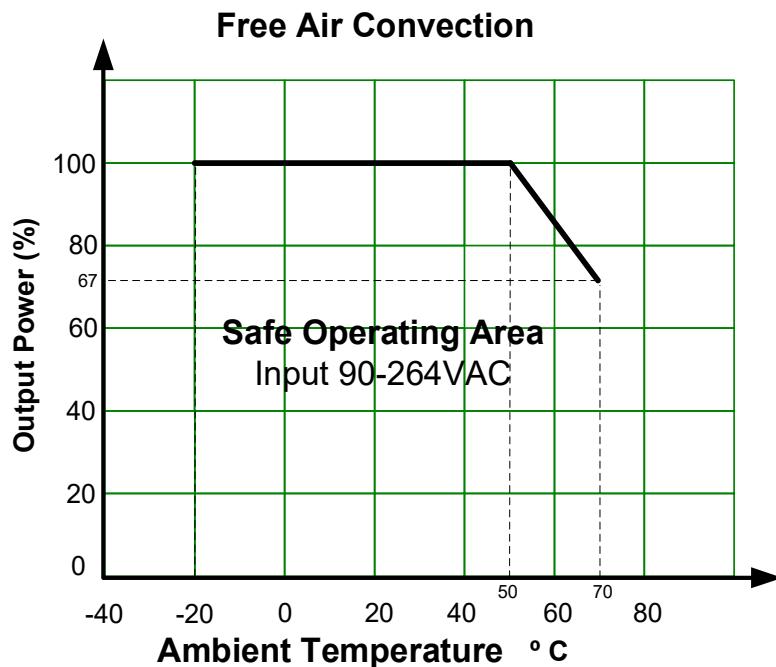
NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

Safety Specifications

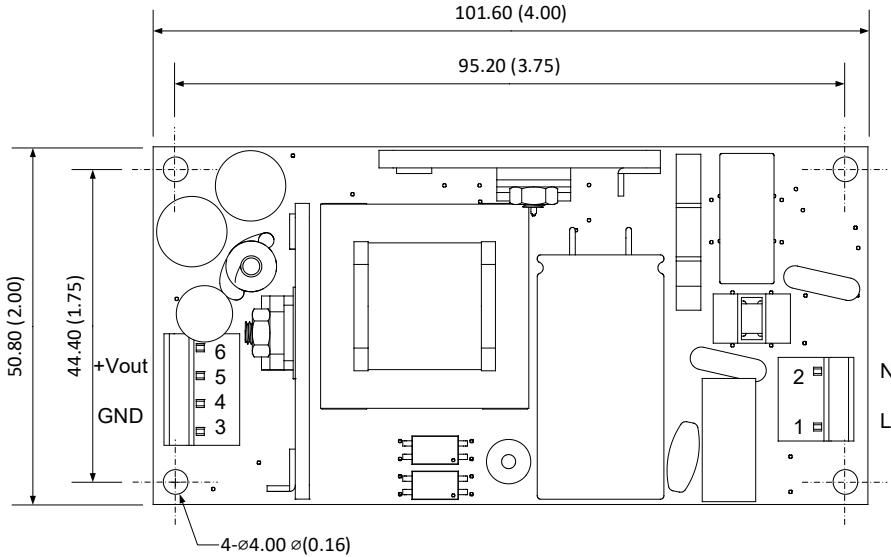
Parameters

Agency approvals	CE: EN62368-1, UL62368-1
	Design to meet EN62368-1 Ed2, IEC60950-1 / IEC62368 Ed2
Standards	EMC - Conducted and radiated emission
	FCC Class B, EN55032 Class B
	Electrostatic Discharge Immunity
	IEC 61000-4-2 Contact ±8KV / Air ±15KV, Criteria A
	Electrical Fast Transient/Burst Immunity
	IEC 61000-4-4 ±2KV
	Surge Immunity
	IEC 61000-4-5 L-L ±2KV/L-G ±4KV, Criteria A
	Power frequency magnetic field test
	IEC 61000-4-8
	Voltage dips, Short Interruptions Immunity
	IEC 61000-4-11

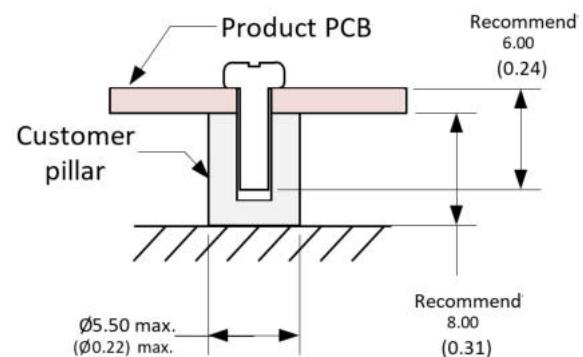
Derating



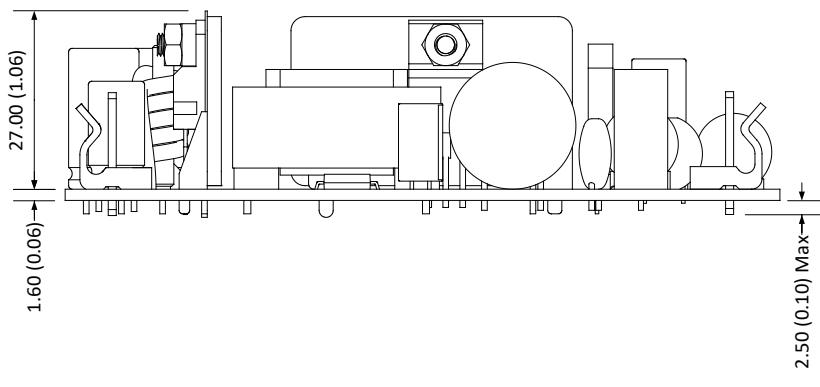
Dimensions



Pin Output Specifications		
Pin	Function	Recommended connector
1	AC Input (L)	TKP P8800I-03N2-V0
2	AC Input (N)	JWT A3961WV0-3P-D or equivalent
3	GND	WST M4-I39601
4	GND	TKP P8800I-04
5	+V Output	JWT A3961WV2-4P or equivalent
6	+V Output	



Note:
 Unit: mm [inch]
 General tolerance: ± 0.5 (± 0.02)
 Mounting screw: M3
 Mounting screw tightening torque: 0.4N max.



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.