

Features

- Universal AC input / Full range
- Low leakage current $\leq 0.3\text{mA}$
- Short circuit, overload, over-voltage, over-temperature protection
- Fixed switching frequency at 100KHz
- Low cost
- High reliability
- 3 year warranty



DC output voltage	24V
Output rated current	1.2A
Output current range	0~1.2A
Rated output power	28.8W
Ripple & noise	240mVp-p
Voltage tolerance	$\pm 3.0\%$
Line regulation	$\pm 0.5\%$
Load regulation	$\pm 1.0\%$
Setup, rise, hold time	500ms, 30ms, 50ms/230VAC 500ms, 30ms, 10ms/115VAC at full load
Input voltage range	88~264VAC auto switch 120~370VDC
Frequency range	47~63Hz
Efficiency	77%
AC current	0.8A/115V 0.5A/230V
Inrush current	cold start 35A/230VAC
Leakage current	$< 0.3\text{mA}/264\text{VAC}$
Overload protection	Above 105% rated output power type: Hiccup mode, recovers automatically after fault condition is removed
Over voltage protection	26.4~32.4V type: shut down output voltage, re-power on to recover
Over temperature	T _j 135°C typically (U1) detect on main control IC type: shutdown output voltage, recovers automatically after temperature goes down
Working temperature	-10~+50°C (Refer to output derating curve)
Working humidity	20~90% RH non-condensing
Storage temp., humidity	-20~+85°C, 10~95% RH
Temperature coefficient	$\pm 0.03\%/^{\circ}\text{C}$ (0~50°C)
Vibration	10~500Hz, 2G 10min./1 cycle, period for 60 min. each along X,Y,Z axes
Safety standards	UL2601-1, TUV EN60601-1, IEC601-1 approved
Withstand Voltage	I/P-O/P: 4KVAC, I/P-F/G: 1.5KVAC, O/P-F/G: Short
Isolation resistance	I/P-O/P, I/P-F/G: 100M Ohms/500VDC min.
EMI conduction & radiation	Compliance to EN55011 (CISPR11) class B
Harmonic current	Compliance to EN61000-3-2,-3
EMS immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN60601-1-2 medical level, criteria A
MTBF	547Khrs min. MIL-HDBK-217F (25°C)
Dimension	4x2.59x0.93 Inches (101.6x65.8x23.5mm)
Weight	0.35lbs (0.16Kg)

Notes:

1. All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient
2. Tolerance includes set up tolerance, line regulation, load regulation
3. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uF & 47 uF capacitor

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Ambient Temperature (°C)	Load (%)
-10	80
0	100
40	100
60	60
60	0

Graph showing Output Voltage (V) and Output Ripple (mVp-p) versus Input Voltage (V) 60Hz. The ambient temperature is $T_a = 25^\circ\text{C}$.

The graph displays two curves:

- Output Voltage (V):** The voltage starts at approximately 32V at 50V input, drops to 24V at 60V input, and remains constant at 24V up to 260V input.
- Output Ripple (mVp-p):** The ripple starts at approximately 350mVp-p at 50V input, drops to 250mVp-p at 60V input, and remains constant at 250mVp-p up to 260V input.

The ambient temperature is $T_a = 25^\circ\text{C}$.

Technical drawing of the T25A250V fuse, showing front and side views with dimensions.

Front View Dimensions:

- Overall Width: 101.6
- Mounting Hole Spacing: 66.1
- Terminal Spacing: 95.2
- Terminal Height: 3.2
- Mounting Hole: M3 L=6mm
- Terminal Block: 4 pins (CN2), 5 pins (CN1)
- Fuse Rating: FUSE*2 T2.5A 250V

Side View Dimensions:

- Height: 23.5 max.

Pin No.	Assignment	Mating Housing	Terminal
1	FG $\frac{1}{2}$	Molex 2139 or equivalent	Molex 2478 or equivalent
2,4	No Pin		
3	AC/N		
5	AC/L		

Pin No.	Assignment	Mating Housing	Terminal
1,2	-V	Molex 2139 or equivalent	Molex 2478 or equivalent
3,4	+V		