

FEATURE

- n RoHS compliant
- n Universal AC input/Full range
- n High efficiency to 88%
- n Continuous short circuit protection
- n 1500VAC input to output isolation
- n 100% full load burn-in test
- n LED indicator for power on
- n Operating temperature range $-10\text{ }^{\circ}\text{C}$ to $50\text{ }^{\circ}\text{C}$
- n Low cost, high reliability



Order Code	Input Voltage(Vac)	Input Current(A)		Output Voltage(Vdc)	Output Current(A)	%Eff. (Typ)
		0% Load	100% Load			
TZG-40-5	85-264	0.02	0.7	5	8	80
TZG-40-12	85-264	0.02	0.7	12	3.33	85
TZG-40-24	85-264	0.02	0.7	24	1.67	88
TZG-40-36	85-264	0.02	0.7	36	1.11	88
TZG-40-48	85-264	0.02	0.7	48	0.83	88

INPUT CHARACTERISTICS

Parameter	Conditions	Min.	Typ.	Max.	Units
Frequency range		47	50	63	Hz
Input Voltage range	Over all operating resistive load	85	220	264	Vac
	Over all operating resistive load	120	300	370	Vdc
Inrush current (max)		40A/230VAC			
Leakage current		<2.5mA/240VAC			

OUTPUT CHARACTERISTICS

Parameter	Conditions	Min.	Typ.	Max.	Units
Voltage Accuracy				± 1	%
Line Regulation	Low line to high line			± 1	%
Load Regulation	10% total load to 100% total load			± 1	%
Output Current Limit		110%~150% Nominal Output			
Short Circuit Protection		Continuous			
Ripple and Noise	20MHz BW			1%Vo	mVp-p
Transient Response	25% Step Load Change	Error band		$\pm 5\%$	Vo,nom
		Recovery Time		500	μS
Setup, rise time		500mS,50mS/230VAC	1200mS,50mS/115VAC		at full load
Hold up time		50mS/230VAC	20mS/115VAC		at full load

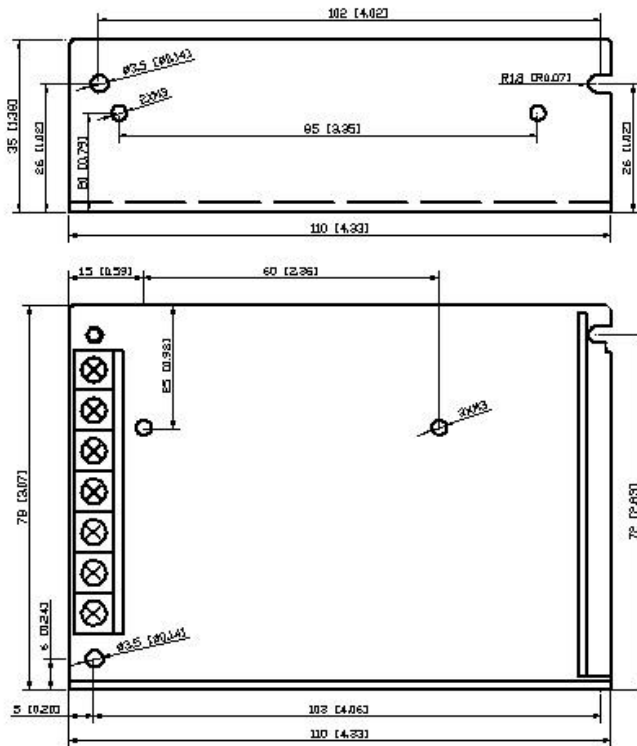
ISOLATED 40W REGULATED OUTPUT AC/DC CONVERTERS

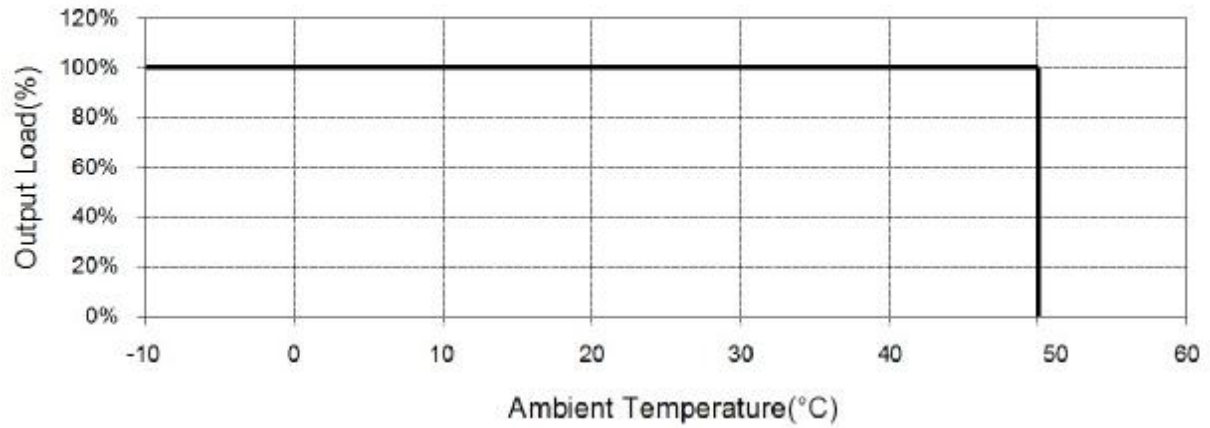
GENERAL CHARACTERISTICS

Efficiency	See Table
Isolation Voltage(P-S,1min,5mA)	1500Vac min.
Safety	GB4943
Altitude	2000m
Operation Ambient Temperature Range	-10°C ~50°C
Derating	Above50°C,Linearly to Zero Power at +50°C
Cooling	Natural Convection
Storage Temperature Range	-20°C to +85°C
Temperature Coefficient	±0.03%
Humidity	90%RH max. Non condensing
MTBF	MIL-STD-217F,GB,25°C,Full Load 200K.hrs Typ
Dimensions	110x78x35mm (4.33x3.07x1.38inches)
Weight	400g

TECHNICAL DIMENSIONS

All Dimensions In Millimeters[Inches]
Tolerance Millimeters: X=±1.0, XX=±.25
Inches: XX=±.04, XXX=±.010



TZG-40 Series Derating Curve**Typical Derating Curve VS Ambient Temperature****Note**

1. Measured From High Line to Low Line.
2. Measured From Full Load to min. Load.
3. Maximum case temperature under any operating condition should Not be exceeded 50°C.
4. The output ripple and noise is measured with 10uF tantalum and 1uF Ceramic capacitor across output.
5. All Specifications Typical at Nominal Line, Full Load, and 25°C Unless Otherwise Noted.