

Model

Miniature Switch Mode Power Supply

TYP60

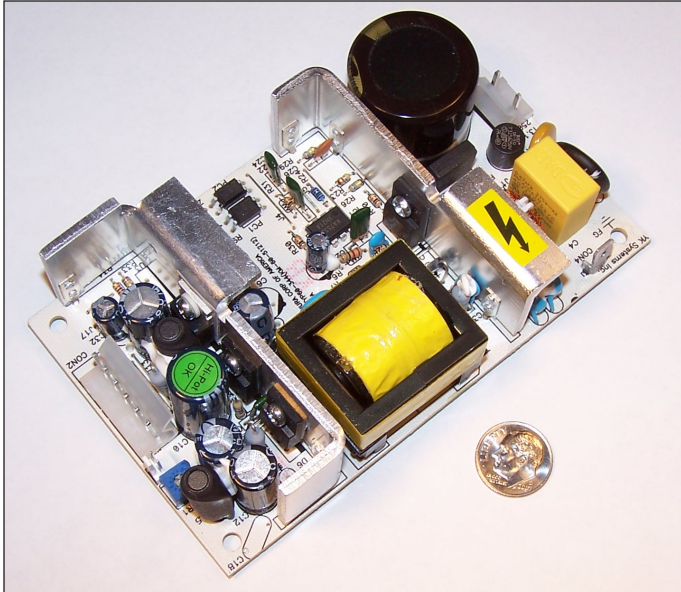
H.A.L.T. Highly Accelerated Life Testing
TESTED

50 Watts Output Power

70% TYP Efficiency

Electrical Specifications

Input Voltage:	90-264 VAC, 47-63 Hz, single phase
Input Current:	At 115VAC, 50W load, maximum input current shall be < 1.0A RMS.
Inrush Current:	20 A peak
EMC:	47CFR FCC part 15; and CISPR22/EN55022 Class B
Input Protection:	Internal AC line fuse; 250 VAC, 3.15A
Output Power:	50W with 10 CFM air
Minimum Load:	> 0.4A for V1 and V2
Line Regulation:	V1, V3 =± 0.2% V2 = ± 2.0%
Load Regulation:	± 2% for V1 and V2 ± 5% for V3
Cross Regulation:	± 8% for V2 ± 5% for V3
PARD (Ripple and Noise):	V1 output: 1% or 50mV, whichever is higher (20MHz bandwidth). V2 and V3 outputs: 1% or 100mV, which ever is higher (20MHz bandwidth)
Remote Sense:	Standard on V1 up to 400mV of cable drop All outputs are protected against loss of sense leads with internal sense connections.
Hold-up Time:	>10 ms @ full load after removal of AC input.
Turn on Delay:	2 seconds



Output Polarity:	See Voltage Chart
Overvoltage Protect:	V1 and V2 factory set @ 20% ±10% of nominal Vout
Overshoot / Undershoot:	<5% overshoot with remote sense at output terminals.
Short Circuit Protection:	Hiccup mode on short circuit of either V1 or V2 outputs. Normal operation after short circuit is removed. Overload protection on V3 is accomplished by foldback. Automatic recovery occurs when the overload is removed.
Reverse Voltage:	Reverse current up to rated outputs
Case Power Protection:	Standard operation interrupt (hiccup mode)
Efficiency:	70% TYP
MTBF:	MIL-STD-HDBK 217E >180,000 hours @ 25°C Highly Accelerated Life Testing

Available Voltage Outputs

Voltage Codes	V1 Voltages (Volts)	V1 Currents (Amps)	V2 Voltages (Volts)	V2 Currents (Amps)	V3 Voltages (Volts)	V3 Currents (Amps)
TYP60-344	+5	6	+12	2	-12	0.5

TAMURA Corporation of America

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Compliance

EMC: 47CFR, FCC part 15; and CISPR 22 / EN55022 Class B

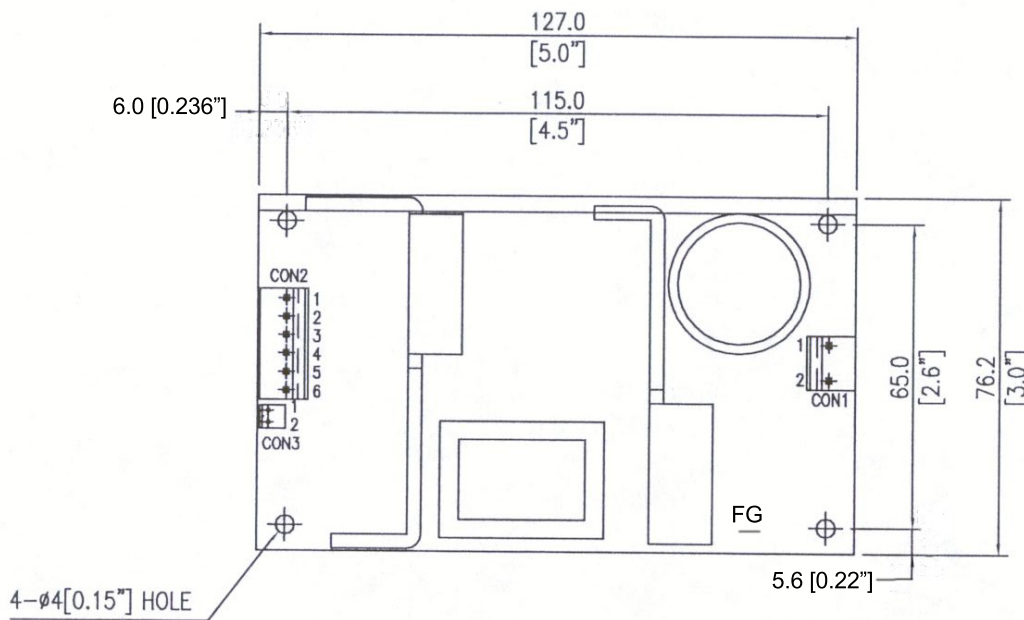
Certifications

UL Recognized UL60950-1
CSA C22.2 No. 60950-1-03

Physical Specifications

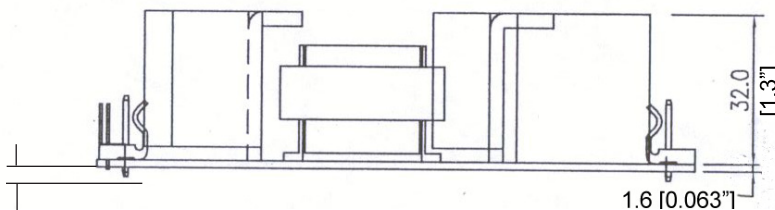
Dimensions: (HxWxL) 1.4" x 3" x 5"
Operating Temp: 0 to 50°C
Storage: -40 to 85°C
Unit Weight: 7.68 Oz
Operating Altitude: 6531'

Dimensions are in mm [inches], unless otherwise noted



PIN NO.	CON1
1	AC LINE
2	----
3	NEUTRAL

PIN NO.	CON2
1	+12VDC
2	+5VDC
3	+5VDC
4	GND
5	GND
6	-12VDC



SPACING FROM PRIMARY CIRCUIT TO GROUNDED COMPONENTS, AND FROM PRIMARY CIRCUIT TO SECONDARY COMPONENTS SHOULD EXCEED 7.6 [0.3"] AFTER INSTALLATION TO MAINTAIN SAFETY.

PIN NO.	CON3
* 1	V1 +SENSE
* 2	V1 -SENSE

* **WARNING:** DAMAGE WILL OCCUR IF REMOTE SENSE LEADS ARE REVERSED OR USED WITH LOAD DISCONNECTED FROM THE OUTPUT

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