



FEATURES

- BF Rated
- 5,000 Meters Operating Altitude
- 2" x 3" x 1.12" Compact Size
- Efficiency up to 89%
- Class II Insulation



INPUT SPECIFICATIONS

Input Voltage Range	85-264 VAC
Input Frequency	47-63Hz
Input Current	0.8A rms @ 115 VAC, 0.4A rms @ 230 VAC
Inrush Current	25A @ 115 VAC or 50A @ 230 VAC, at 25°C cold start
Touch Current	100µA max. @ 264 VAC, 63Hz
No Load Input Power	0.3W max.

OUTPUT SPECIFICATIONS

Output Power Ratings	See table
Output Voltage	See table
Tolerance	±3%
Ripple and Noise*	1% peak to peak max.
Over Voltage Protection	Latch off
Over Current Protection	Auto-recovery
Short Circuit Protection	Auto-recovery
Over Temp. Protection	Latch off
Temperature Coefficient	±0.04%/°C max.
Transient Response	Max. excursion of 4% or better on all models, recovering to 1% of final value within 500 µs after a 25% step load change

* Peak to peak with 20MHz bandwidth and 10µF tantalum capacitor in parallel with 0.1µF ceramic capacitor at rated line voltage and load ranges

GENERAL SPECIFICATIONS

Efficiency	87% typical @ 115 VAC, 89% typical @ 230 VAC
Operating Altitude	5,000 meters max.
Hold-up Time	12ms min. @ 110 VAC
Line Regulation	±1% max. @ full load
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Derating	Derate from 100% @ +50°C linearly to 70% @ +70°C
Relative Humidity	5% to 95% non-condensing
Withstand Voltage	4,000 VAC input-output (2MOPP)
MTBF	250K hours minimum at full load, 25°C ambient, calculated per MIL-HDBK-217F

MODELS LIST

Product No.	Output			
	Voltage	Max. Current	Max. Power	Ripple & Noise*
THC35-05	5V	6A	30W	100mV
THC35-12	12V	2.92A	35W	120mV
THC35-15	15V	2.33A	35W	150mV
THC35-18	18V	1.94A	35W	150mV
THC35-24	24V	1.45A	35W	200mV

STANDARDS & COMPLIANCES

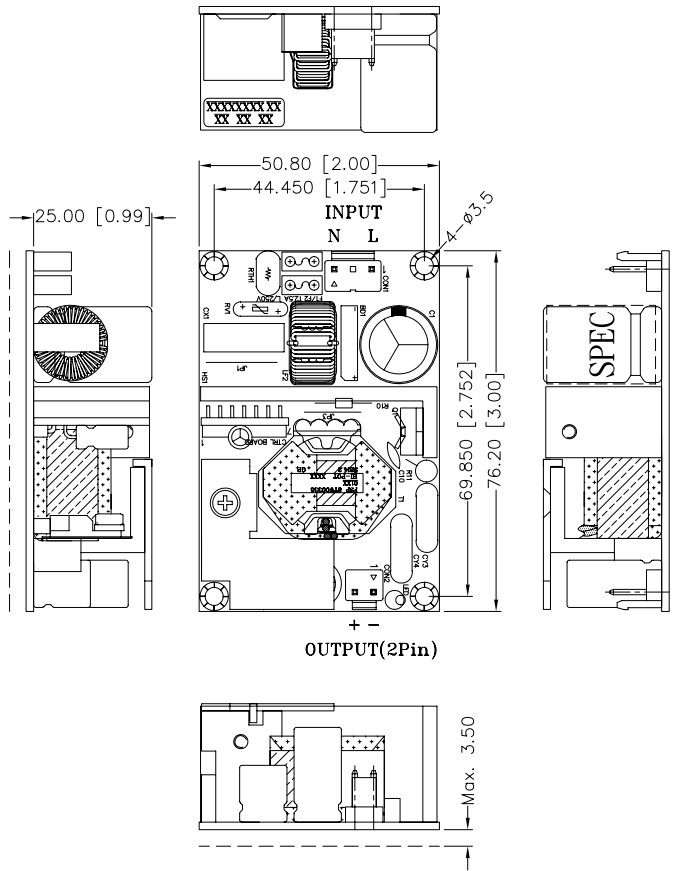
IEC/EN 60601-1-2	EMC & Immunity Performance
EN 55011	Class B, conducted & radiated
EN 55022	Class B, conducted & radiated
FCC, VCCI	Class B, conducted & radiated
EN61000-3-2	Harmonic distortion, Class A & D
EN61000-3-3	Line fluctuations & flicker
EN61000-4-2	ESD, ±15 KV air and ±8 KV contact
EN61000-4-3	Radiated immunity, 10V/m
EN61000-4-4	Fast transient/burst, ±2 KV
EN61000-4-5	Surge, ±1 KV diff., ±2 KV com.
EN61000-4-6	Conducted immunity, 6 Vrms
EN61000-4-8	Magnetic field immunity, 30A/m
EN61000-4-11	Voltage dip immunity, 30% reduction for 500ms, 60% reduction for 100ms, >95% reduction for 10ms
Safety Standards	UL/IEC/EN 60601-1 (3 rd Edition) ANSI/AAMI ES 60601-1:2005 CSA C22.2 No. 60601-1:2008
Agency Approvals*	UL, cUL, TUV, CB, CE
Other Compliance	RoHS

*UL / cUL Approvals Pending

THC35 Series

35 Watts AC/DC Medical Grade Power Supplies

MECHANICAL SPECIFICATIONS



CONNECTORS & SIGNALS

CONNECTOR	PIN	FUNCTION
CN1	N	NEUTRAL
	L	LINE
CN2	1	RETURN
	2	+V

NOTES:

1. Dimensions: mm [inches].
2. Tolerance: 0.02 [0.5] maximum.
3. Input Connector CN1: JST P/N B3P-VH or equivalent, mating with JST VHR series housing with terminal P/N SVH-21T-P1.1 or equivalent.
4. Output Connector CN2: JST P/N B2P-VH or equivalent, mating with JST VHR series housing with terminal P/N: SVH-21T-P1.1 or equivalent.
5. Weight: 96g (0.21 lbs.) approx.