



FEATURES

- Convection-Cooled 65 Watts in 2" x 3" Footprint
- Latest IEC/UL 62368-1 Approvals
- No Load Power Consumption < 0.15W
- 100-240VAC Universal Input



INPUT SPECIFICATIONS

Input Voltage Range 100~240 VAC
 Input Frequency 50~60 Hz
 Input Current 1.6A max.
 Inrush Current 80A max. @ 240 VAC, at 25°C cold start
 Earth Leakage Current 250 µA max.

OUTPUT SPECIFICATIONS

Output Voltage/Current See models list
 Load Regulation ±5% typ. @ full load
 No Load Power Cons. 0.15W max.
 Ripple and Noise* 1% Vp-p max. of the output voltage
 Over Voltage Protection Shut down
 Short Circuit Protection Shut down, Auto-recovery
 Over Current Protection Shut down, Auto-recovery
 Temperature Coefficient ±0.04%/ max.
 Transient Response 0.5 mS @ 50% load change

* Measured with 20MHz bandwidth at rated line voltage and output load ranges, with a 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor across the output.

GENERAL SPECIFICATIONS

Switching Frequency 65 KHz
 Efficiency 89% min. @ full load
 Hold-up Time 10 mS min. @ full load
 Operating Temperature 0°C to +70°C
 Storage Temperature -20°C to +80°C
 Operating Humidity 20% to 80%, non-condensing
 Storage Humidity 10% to 90%, non-condensing
 Derating Derate from 100% at +50°C linearly to 50% at +70°C
 Cooling Convection
 Withstand Voltage 3,000 VAC, input-output
 MTBF 300K hours minimum at full load, 25°C ambient, calculated per Telcordia SR-332

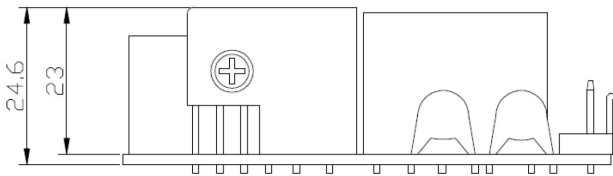
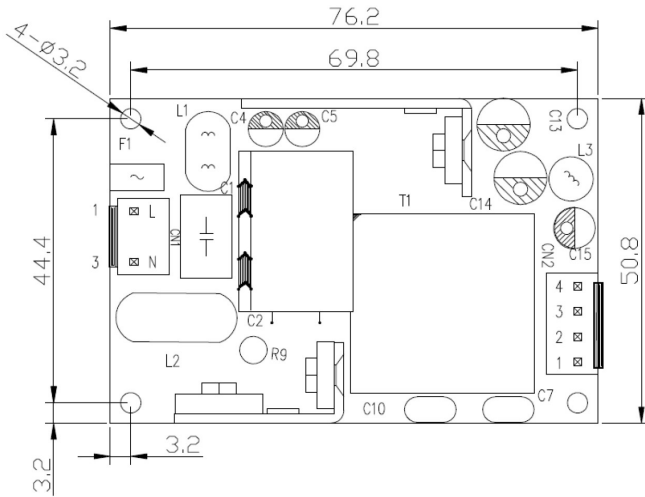
MODELS LIST

Product No.	Output Voltage	Output Current	Output Power
TC65-05	5V	10A	50W
TC65-09	9V	7.2A	65W
TC65-12	12V	5.42A	65W
TC65-15	15V	4.34A	65W
TC65-19	19V	3.43A	65W
TC65-24	24V	2.71A	65W
TC65-48	48V	1.36A	65W

STANDARDS & COMPLIANCES

EN55011, EN55022 Class B conducted and radiated
 FCC, VCCI Class B conducted and radiated
 EN 61000-3-2 Harmonic distortion, Class A & D
 EN 61000-3-3 Line flicker
 EN 61000-4-2 ESD, ±8 KV air and ±6 KV contact
 EN 61000-4-3 Radiated immunity, 3V/m
 EN 61000-4-4 Fast transient/burst, ±2 KV
 EN 61000-4-5 Surge, ±1 KV diff., ±2 KV com.
 EN 61000-4-6 Conducted immunity, 3 Vrms
 EN 61000-4-8 Magnetic field immunity, 3A/m
 EN 61000-4-11 Voltage dip immunity, 30% reduction for 500ms, 60% reduction for 100ms, >95% reduction for 10ms
 Safety Standards IEC/UL 62368-1 (3rd Edition), CSA C22.2 No. 62368-1
 Agency Approvals UL, cUL, CE, CB
 Other Compliances RoHS, DOE Level VI, ErP Stage II

MECHANICAL SPECIFICATIONS



INPUT CONNECTOR (CN1)	
PIN	FUNCTION
1	LINE
2	NULL
3	NEUTRAL

OUTPUT CONNECTOR (CN2)	
PIN	FUNCTION
1	RTN
2	RTN
3	+V
4	+V

NOTES:

1. Dimensions: inches [mm]
2. Tolerance: 0.02 [0.5] maximum
3. Connector CN1: JST B2P3-VH or equivalent, mating with JST VAR-2 or equivalent.
4. Connector CN2: JST B4P-VH or equivalent, mating with JST VHR-4N or equivalent.
5. Weight: 100 grams (0.22 lbs.) approx.