

FEATURES

- Low Cost
- Low Safety Ground Leakage Current
- Class I (2MOPP) & Class II (1MOPP) Models Available
- Compliant with CEC & Energy Star Level V
- 100% Burn-in Tested
- White-Colored Units Available



INPUT SPECIFICATIONS

Input Voltage Range	85~265 VAC
Input Frequency	47~63Hz
Input Current	2A rms @ 115 VAC 1A rms @ 230 VAC
Inrush Current	40 A @ 115 VAC or 80 A @ 230 VAC, at 25°C cold start
Touch Current	100µA max. @ 264 VAC, 63Hz
Earth Leakage Current	300µA max. @ 264 VAC, 63Hz

OUTPUT SPECIFICATIONS

Output Power Ratings	See table
Minimum Load	Not required
Tolerance	±5%
Ripple and Noise*	1% peak to peak max. at full load
Overvoltage Protection	Set at 112-140% of its nominal output voltage
Overcurrent Protection	Protected to short-circuit conditions
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

* 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 in parallel across the output.

GENERAL SPECIFICATIONS

Power Factor	0.98 typical @ 115 VAC
Efficiency	87% minimum at full load
Hold-up Time	10 ms min. @ 110 VAC
Switching Frequency	75~100KHz
Line Regulation	$\pm 0.5\%$ maximum at full load
Operating Temperature	0°C to +60°C
Derating	Derate from 100% at +40°C linearly to 50% at +60°C
Storage Temperature	-40°C to +85°C
Relative Humidity	5% to 95% non-condensing
Withstand Voltage	5600 VDC from input to output, 2100 VDC from input to ground, 700 VDC from output to ground (Class II: 4000 VAC from input to output)
MTBF	150K hours minimum at full load, 25°C ambient, calculated per MIL-HDBK-217F

MODELS LIST

Product No.	Output Voltage	Maximum Current	Maximum Power
Class I (IEC 320/C6 Inlet)			
TMP65-12	12 V	5.42 A	65 W
TMP65-15	15 V	4.33 A	65 W
TMP65-18	18 V	3.62 A	65 W
TMP65-19	19 V	3.43 A	65 W
TMP65-20	20 V	3.25 A	65 W
TMP65-24	24 V	2.71 A	65 W
Class II (IEC 320/C8 Inlet)			
TMP65-12-2R	12 V	5.42 A	65 W
TMP65-15-2R	15 V	4.33 A	65 W
TMP65-18-2R	18 V	3.62 A	65 W
TMP65-19-2R	19 V	3.43 A	65 W
TMP65-20-2R	20 V	3.25 A	65 W
TMP65-24-2R	24 V	2.71 A	65 W

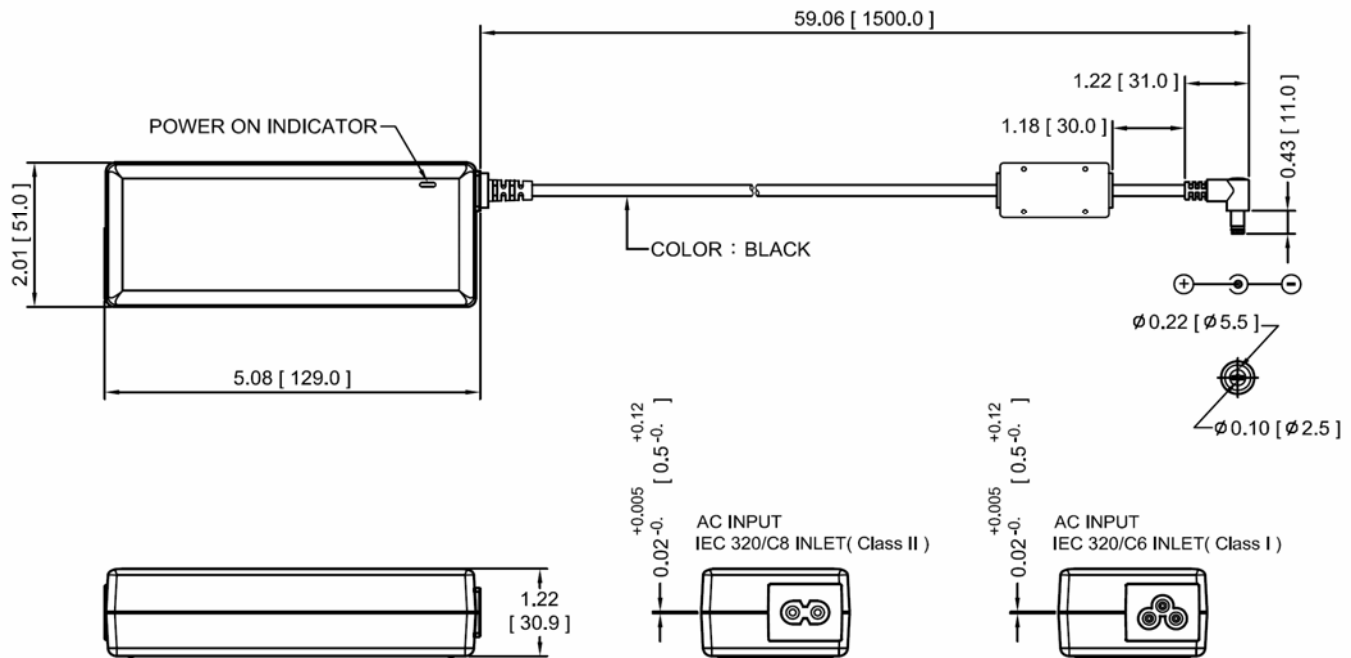
STANDARDS & COMPLIANCES

IEC/EN 60601-1-2	EMC & Immunity Performance
EN 55011, FCC, VCCI	Class B, conducted & radiated
EN 61000-3-2	Harmonic distortion, Class A
EN 61000-3-3	Line flicker
EN 61000-4-2	ESD, ± 8 KV air and ± 6 KV contact
EN 61000-4-3	Radiated immunity, 3 V/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, 3 A/m
EN 61000-4-11	Voltage dip immunity, 30% reduction for 500ms, 60% reduction for 100ms, >95% reduction for 10ms
Safety Standards	IEC/EN/UL 60601-1 3rd Edition, ANSI/AAMI ES 60601-1 1st Edition, CSA-C22.2 No. 60601-1 2nd Edition
Agency Approvals	UL, TUV, CE, CB
Other Compliances	RoHS, CEC & Energy Star Level V

TMP65 Series

65 Watts Medical Grade Power Adapters

MECHANICAL SPECIFICATIONS



Unit: inch [mm]
Tolerance: 0.02 [0.5] maximum
Weight: 410 grams (0.906 lbs.) approx.

NOTES:

1. Standard model comes with AC and DC Grounds connected together. Separate grounds available upon request.
2. The output connector shown is for reference only. Please contact TRUMPower to order the connector that meets your requirements.