



**FEATURES**

- Single 5V to 48V, 20W DC Output Power
- Fixed US, EU & UK AC Plugs
- Class II with 2 X MOPP
- Meets IEC/EN 60601-1-2 4th Edition Medical EMC
- Approved to IEC/EN/UL 60601-1 Edition 3.1
- 0.075W Max. No Load Power Consumption
- DOE/GEMS Level VI & ErP Stage II Compliant



**INPUT SPECIFICATIONS**

Input Voltage Range .....	90-264 VAC
Input Frequency .....	50-60 Hz
Input Current .....	0.45-0.27A rms
Inrush Current.....	50A @ 100 VAC, 60A @ 230VAC at 25°C cold start
Touch Current .....	100 µA max.
No Load Input Power. ....	0..75W max.

**OUTPUT SPECIFICATIONS**

Output Power Ratings .....	See table
Line Regulation .....	±1% max.
Load Regulation .....	±5% max.
Ripple and Noise* .....	1% Vp-p max.
Over Voltage Protection .....	Shut down
Short Circuit Protection .....	Shut down; Auto-recovery
Over Current Protection .....	Shutdown, Auto-recovery
Temperature Coefficient.....	±0.04%/°C 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 in parallel across the output.

**STANDARDS & COMPLIANCE**

IEC/EN 60601-1-2:2014 .....	EMC & Immunity Performance
EN 55011, CISPR 11, FCC ...	Class B, conducted & radiated
EN 61000-3-2 .....	Harmonic distortion, Class A
EN 61000-3-3 .....	Line fluctuations & flicker
EN 61000-4-2 .....	ESD, ±15 KV air and ±8 KV contact
EN 61000-4-3 .....	Radiated immunity, 10V/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, 6 Vrms
EN 61000-4-8 .....	Magnetic field immunity, 30A/m
EN 61000-4-11 .....	Voltage dip immunity, 30% reduction for 500ms, 60% reduction for 100ms, >95% reduction for 10ms
Safety Standards .....	UL/IEC/EN 60601-1 (Edition 3.1), ANSI/AAMI ES 60601-1 (2012), CSA C22.2 No. 60601-1 (2014); IEC/EN 60950-1 (2nd Edition)
Agency Approvals .....	UL, cUL, CE, CB, TUV/GS, PSE
Other Compliance .....	RoHS, DOE/GEMS Level VI, ErP Stage II

**GENERAL SPECIFICATIONS**

Efficiency .....	85.5% min. @ full load
Hold-up Time .....	10 ms @ full load
Operating Temperature .....	0°C to +40°C
Storage Temperature .....	-20°C to +80°C
Operating Humidity .....	20% to 80% non-condensing
Storage Humidity .....	10% to 90% non-condensing
Withstand Voltage .....	4,000 VAC, input-output, 2 MOPP
MTBF .....	300 KHrs minimum at full load, 25°C ambient, calculated per Telecordia SR-332

**MODELS LIST**

Product No.	Output Voltage	Maximum Current	Maximum Power
<b>TDM20-5-X</b>	5V	3.5A	17.5W
<b>TDM20-5.9-X</b>	5.9V	3A	17.7W
<b>TDM20-9-X</b>	9V	2.22A	20W
<b>TDM20-12-X</b>	12V	1.67A	20W
<b>TDM20-15-X</b>	15V	1.33A	20W
<b>TDM20-18-X</b>	18V	1.11A	20W
<b>TDM20-24-X</b>	24V	0.83A	20W
<b>TDM20-48-X</b>	48V	0.42A	20W

Note: X = AC plug code

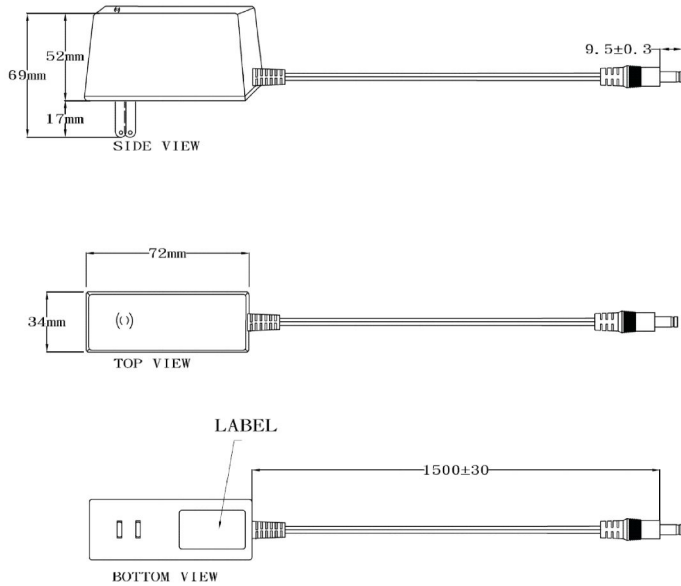
Code X	Designation/Description
<b>U</b>	Fixed US Plug
<b>E</b>	Fixed EU Plug
<b>B</b>	Fixed UK Plug

# TDM20 Series

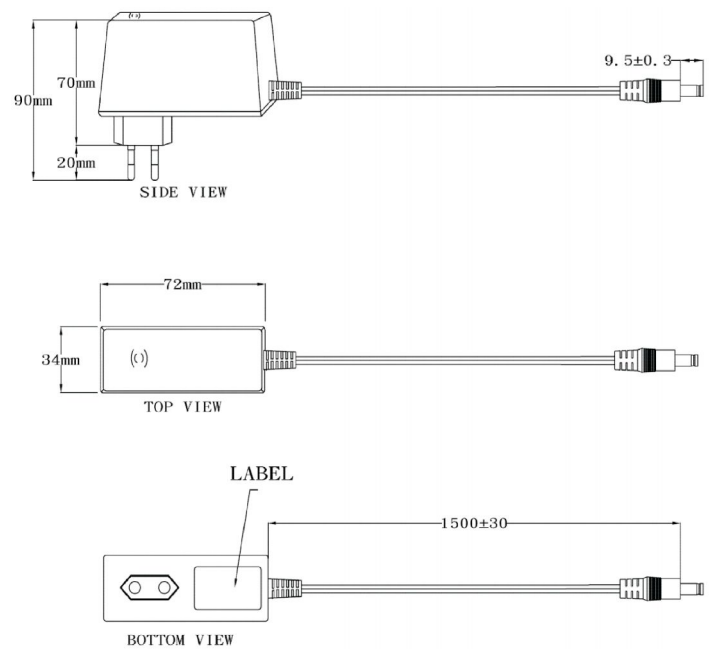
## 20 Watts Medical Grade Wallmount Power Adapters

### MECHANICAL SPECIFICATIONS

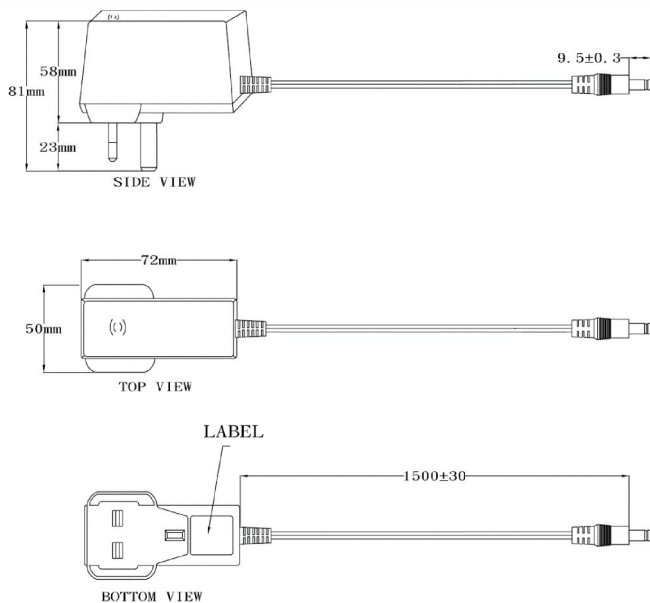
#### Fixed US Plug



#### Fixed EU Plug



#### Fixed UK Plug



#### Notes:

1. Unit: mm
2. Weight: 170g (0.38 lbs) approx.
3. Color: Black (standard)
4. Contact TRUMPower for output connector options.