



**FEATURES**

- Class I & II with IEC 320/C6, C8, C14, C18 AC Inlets
- LED Power Indicator
- 12V to 48V Single Outputs
- Overvoltage, Overcurrent & Over Temperature Protections
- Approved to IEC/EN/UL 60601-1 3.1 & IEC 60950-1 2nd Ed.
- Meets IEC/EN 60601-1-2 4th Edition Medical EMC
- CEC, DOE Level VI & ErP Stage 2 Compliant



**INPUT SPECIFICATIONS**

Input Voltage Range .....	100-240 VAC
Input Frequency .....	50-60 Hz
Input Current .....	1.6A max.
Inrush Current .....	100A @ 230 VAC, at 25°C cold start
Touch Current .....	100 µA max.
Earth Leakage Current .....	300 µA max. (Class I)

**OUTPUT SPECIFICATIONS**

Output Power Ratings .....	See table
No Load Power Cons. ....	0.15W max.
Line Regulation .....	±1% max.
Load Regulation .....	±5% max.
Ripple and Noise* .....	1% peak to peak max.
Overvoltage Protection .....	Set at 150% of its nominal output voltage; Latch off
Over Temp. Protection .....	Set @ 110°C; Latch off
Short Circuit Protection .....	Shutdown; Auto recovery
Overcurrent Protection .....	Set at 150% of its nominal input voltage; Shutdown
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.

**GENERAL SPECIFICATIONS**

Power Factor .....	0.95 typical @ full load
Efficiency .....	87% 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>TDM120-12</b>	12V	10A	120W
<b>TDM120-15</b>	15V	8A	120W
<b>TDM120-18</b>	18V	6.6A	120W
<b>TDM120-19</b>	19V	6.32A	120W
<b>TDM120-20</b>	20V	6A	120W
<b>TDM120-24</b>	24V	5A	120W
<b>TDM120-48</b>	48V	2.5A	120W

**Note:**

1) Add suffix "-4" for models equipped with IEC 320/C14 AC inlet, "-6" for C6 inlet, "-8" for C8 inlet, "-18" for C18 inlet, e.g. TDM120-12-4, TDM120-12-6, TDM120-18-8, TDM120-18-18, etc.

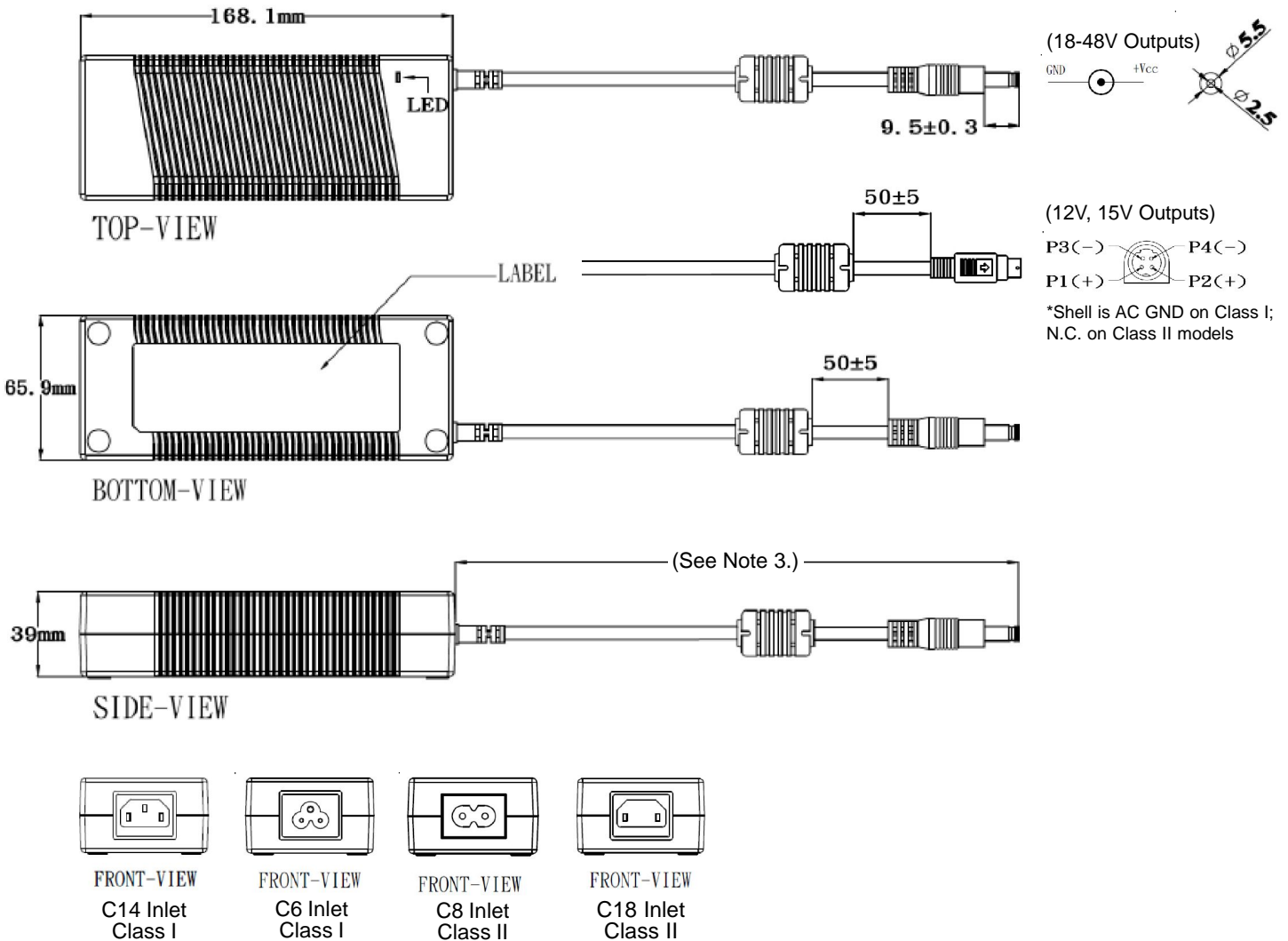
**STANDARDS & COMPLIANCE**

IEC 60601-1-2:2014 .....	EMC & Immunity Performance
EN 55011 .....	Class B, conducted & radiated
FCC, CISPR 11 .....	Class B, conducted & radiated
EN 61000-3-2 .....	Harmonic distortion, Class A & D
EN 61000-3-3 .....	Line flicker
EN 61000-4-2 .....	ESD, ±15 KV air and ±8 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 dips, 30% reduction for 500ms, 60% reduction for 100ms, >95% reduction for 10ms
Safety Standards .....	UL/IEC/EN 60601-1 (3.1 Edition), ANSI/AAMI ES 60601-1:2012, CSA C22.2 No. 60601-1:2014; IEC 60950-1 (2nd Edition)
Agency Approvals .....	UL, cUL, TUV, CE, CB, PSE
Other Compliance .....	RoHS, CEC & Energy Star Level VI, ErP Stage 2

# TDM120 Series

## 120 Watts Medical & ITE Grade Power Adapters

### MECHANICAL SPECIFICATIONS



#### Notes:

1. Tolerance: 0.5mm maximum, unless otherwise stated.
2. Weight: 560g (1.23 lbs) approx.
3. Cable length: 1,200mm for 12-15V outputs, 1,500mm for 18-48V outputs.
4. Standard output connector: Kycon P/N KPPX-4P circular DIN or equivalent (mates with KPJX-4S-S or equivalent) for 12V & 15V outputs;  
5.5 x 2.5 x 9.5mm barrel connector for 18-48V outputs.
5. Contact TRUMPower for output connector options.