



FEATURES

- Single 3.3V to 24V DC Outputs
- Interchangeable and Fixed AC Plugs
- USB Socket on 5V Output Models
- Approved to IEC/EN/UL 60601-1 Edition 3.1
- Meets IEC/EN 60601-1-2 4th Edition Medical EMC
- DOE/GEMS Level VI & ErP Stage II Compliant
- Black (Standard) and White (Optional) Colors



INPUT SPECIFICATIONS

Input Voltage Range 90-264 VAC
 Input Frequency 47-63 Hz
 Input Current 0.32A rms @ 115 VAC,
 0.19A rms @ 230 VAC
 Inrush Current 60A @ 240 VAC, at 25°C cold start
 Touch Current 100 μ A max.
 No Load Input Power. 0.1W max.

OUTPUT SPECIFICATIONS

Output Power Ratings See table
 Line Regulation \pm 1% max.
 Load Regulation \pm 5% max.
 Ripple and Noise* 1% peak to peak max.
 Over Voltage Protection Shut down
 Short Circuit Protection Shut down; Auto-recovery
 Over Current Protection Shutdown, Auto-recovery
 Temperature Coefficient \pm 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 10 μ F tantalum capacitor in parallel with a 0.1 μ F ceramic capacitor in parallel across the output.

STANDARDS & COMPLIANCES

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, \pm 15 KV air and \pm 8 KV contact
 EN 61000-4-3 Radiated immunity, 10V/m
 EN 61000-4-4 Fast transient/burst, \pm 2 KV
 EN 61000-4-5 Surge, \pm 1 KV diff., \pm 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, CB)
 Pending Agency Approvals UL, cUL, CE, CB, TUV/GS
 Other Compliances RoHS, DOE/GEMS Level VI,
 ErP Stage II

GENERAL SPECIFICATIONS

Efficiency 78% 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
 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
TMW10-3.3-X	3.3V	2A	6.6W
TMW10-5-X	5V	2A	10W
TMW15-5-X	5V	3A	15W
TMW10-9-X	9V	1.2A	10.8W
TMW12-12-X	12V	1A	12W
TMW12-15-X	15V	0.8A	12W
TMW12-18-X	18V	0.67A	12W
TMW12-24-X	24V	0.5A	12W

Note: X = AC plug code. See the tables and drawings below for details.

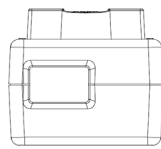
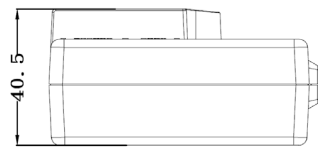
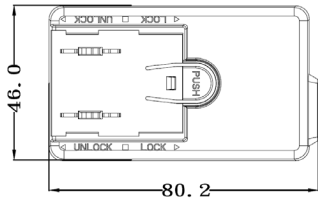
Code X	Designation/Description	Interchangeable Plug	Part No.
U	Fixed US Plug	US Plug	TIPU
E	Fixed EU Plug	EU Plug	TIPE
B	Fixed UK Plug	UK Plug	TIPB
I	Interchangeable "Main Body" without the AC Plug	AU Plug	TIPA

Notes:

1. Specify the AC plug code when ordering, e.g. TMW10-5-U for 5V output with US AC plug, TMW12-12-I for 12V output "main body" for interchangeable plug, etc.
2. For interchangeable type, at least one interchangeable plug must be ordered together with the "main body" (X=I), e.g. TMW10-5-I for 5V output main body and TIPU for US type interchangeable plug, etc.
3. Add suffix "P" to order units with a built-in USB socket, e.g. TMW10-5-UP for 5V output with a fixed US plug and USB type A receptacle. The maximum current for USB type A connector is 2.4A.
4. Standard color is black. Add suffix "W" for white version, e.g. TMW10-5-UPW.

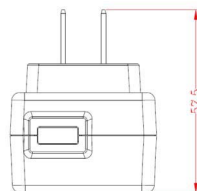
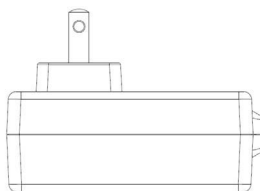
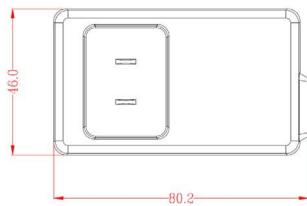
MECHANICAL SPECIFICATIONS

Interchangeable Plug

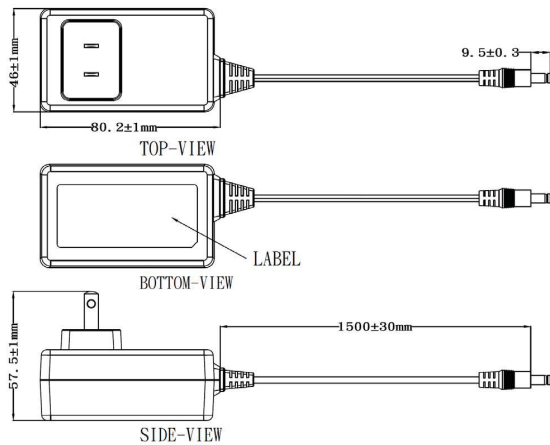


INTERCHANGEABLE AC PLUG			
TIPU	TIFE	TIPB	TIPA

Fixed US Plug



Fixed US Plug with DC Output Cable



Notes:

1. Unit: mm
2. Weight: 112g (0.38 lbs) approx.
3. Color: Black (standard) or White (optional)
4. Standard output connector: Built-in USB Type A receptacle for 5V output, or 2.1x5.5x9.5mm barrel plug on the cable for other outputs.
5. Contact TRUMPower for output connector options.