TRUMPower

TXM25 Series

Medical Grade 25W Wall Mount Power Adapters

FEATURES

- IEC 60601-1-11:2015 Home Healthcare Certification
- Approved to UL/IEC/EN 60601-1 3.1 Edition
- Meets IEC/EN 60601-1-2 4th Edition EMC
- Class II Construction with 2 MOPP
- Interchangeable AC Plugs
- UL, cUL, TUV, PSE, CCC, CB & CE Approvals



INPUT SPECIFICATIONS

Input Voltage Range	80~275 VAC
Input Frequency	47~63 Hz
Input Current	0.7A rms @ 100 VAC, 0.4A rms @ 240 VAC
Inrush Current	50A @ 100 VAC or 100A @ 240 VAC, at 25°C cold start
No Load Power Consumption	0.3W max.
Enclosure Leakage Current	100μA max. @ 240 VAC, 60 Hz

OUTPUT SPECIFICATIONS

Output Power Ratings	See models list
Minimum Load	Not required
Total Regulation	See models list
Ripple & Noise	See models list
Overload Protection	Set at 110-150% of its nominal output voltage; Auto recovery
Short Circuit Protection	Auto recovery
Temperature Coefficient	±0.04%/°C max.
Transient Response	4ms @ 110 VAC, full load

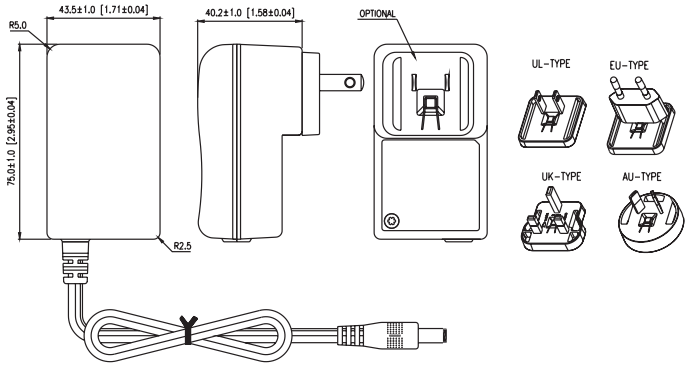
GENERAL SPECIFICATIONS

Efficiency	See models list
Hold-up Time	12ms min. @ 100 VAC, full load
Start-up Time	3 seconds max. @ full load
Line Regulation	±1% max. @ full load
Operating Temperature	-10°C to +70°C
Derating	Derate from 100% at +40°C linearly to 50% at +70°C
Storage Temperature	-40°C to +85°C
Relative Humidity	0% to 95% non-condensing
Withstand Voltage	4,000 VAC from input to output
Operating Altitude	3,000 meters max.
MTBF	100K hours minimum at full load, 25°C ambient, calculated per MIL-HDBK-217F

STANDARDS & COMPLIANCES

IEC/EN 60601-1-2: 2014	EMC & Immunity Performance
EN 55011, CISPR11	Class B, conducted & radiated
FCC, VCCI	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, 10 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, 6 Vrms
EN 61000-4-8	Magnetic field immunity, 30 A/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 (Edition 3.1), ANSI/AAMI ES 60601-1 (2012), CSA C22.2 No. 60601-1 (2014); IEC 60601-1-11:2015
Agency Approvals	UL, cUL, TUV, PSE, CCC, CE, CB
Other Compliances	RoHS2, CEC

MECHANICAL SPECIFICATIONS



Unit: inch. [mm]
Tolerance: 0.02 [0.5] max.
Weight: 200g (0.44 lb) approx.

Notes:

1. Standard output connector: 2.5 x 5.5 mm or 2.1 x 5.5 mm barrel plug
2. Standard output cable: 4-ft, AWG#18 for 3-10.9V output models; 4-ft, AWG#20 for 11-32.9V output models; 4-ft, AWG#22 for 33-55V output models.
3. Contact TRUMPower for other output cable and connector options.

Tumbler Technologies + TRUMPower

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MODELS LIST

Product No. (1) (Main Body Only)	Output Voltage (2)	Max. Output Current	Max. Output Power	Ripple & Noise (3) (Vp-p Max.)	Total Regulation	Efficiency (Typ.)
TXM25-03	3V	3.5A	10.5W	66mV	±5%	65%
TXM25-05	5V	3.3A	16.5W	50mV	±5%	80%
TXM25-07	7V	2.857A	20W	70mV	±5%	82%
TXM25-09	9V	2.444A	22W	90mV	±5%	83%
TXM25-12	12V	2.083A	25W	100mV	±5%	84%
TXM25-15	15V	1.667A	25W	100mV	±5%	85%
TXM25-19	19V	1.316A	25W	100mV	±5%	85%
TXM25-24	24V	1.042A	25W	100mV	±3%	86%
TXM25-30	30V	0.833A	25W	100mV	±3%	86%
TXM25-36	36V	0.694A	25W	100mV	±3%	86%
TXM25-48	48V	0.521A	25W	100mV	±3%	86%
TXM25-54	54V	0.463A	25W	100mV	±3%	86%

Part No.	Interchangeable AC Plugs
TXM-IPU	US/China/Japan Type; Non-Polarized
TXM-IPE	EU Type
TXM-IPB	UK Type
TXM-IPA	Australia Type

Notes:
1. At least one AC plug is required to order with each power adapter's main body.
2. Specify the output voltage, within 3V to 55V, when ordering non-standard output models, e.g. TXM25-16.5 for 16.5V output.
3. Ripple & Noise are measured with 20MHz bandwidth at nominal line and rated output load ranges, with a 0.47μF capacitor connected across the output.

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