

### TAM30 Series



#### FEATURES

- Desktop adapter with IEC320/C14 AC inlet
- High efficiency
- Low ripple & noise
- Overvoltage protection
- Short-circuit protection
- Overpower protection
- 100% burn-in at full rated load
- Standby consumption less than 0.3 W
- Compliant with CEC efficiency level IV regulations
- Compliant with RoHS requirements



#### INPUT SPECIFICATIONS

Input voltage:	90 to 264 VAC
Input frequency:	47 to 63 Hz
Input current:	1.0A (rms) for 115 VAC 0.60A (rms) for 230 VAC
Leakage current:	300 µA max. @ 264 VAC, 60 Hz

#### OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chart
Output power range:	30 watts maximum
Ripple and noise:	1% peak to peak maximum
Overvoltage protection:	Set at 125-230% of its nominal output voltage
Overcurrent protection:	All models protected to short circuit conditions
Transient response:	+10% maximum excursion Output load step is: 1) 0% to 50% 2) 50% to 100% Slew rate=0.5 A/µs Frequency is 100 Hz and 1 KHz

#### ENVIRONMENTAL SPECIFICATIONS

Operating temperature:	0°C to +40°C
Storage temperature:	-10°C to +70°C
Relative humidity:	10% to 90% non-condensing
Derating:	Derate from 100% at +40°C linearly to 65% at +60°C

#### Safety Standard Approvals:



UL 60601-1  
CSA C22.2 No. 601.1



TÜV EN60601-1

#### GENERAL SPECIFICATIONS

Hold-up time:	8 msec minimum at 115 VAC
Turn on delay time:	3 s maximum at 115 VAC
Power Factor:	0.95 typical
Efficiency:	83.5% min. at 115 VAC or 230 VAC
Line regulation:	±0.5% maximum at full load
Inrush current:	No damage
Withstand voltage:	1500 VAC from input to output
MTBF:	300,000 hours at full load at 25°C ambient, calculated per MIL-HDBK-217F

#### EMC Performance (IEC60601-1-2)

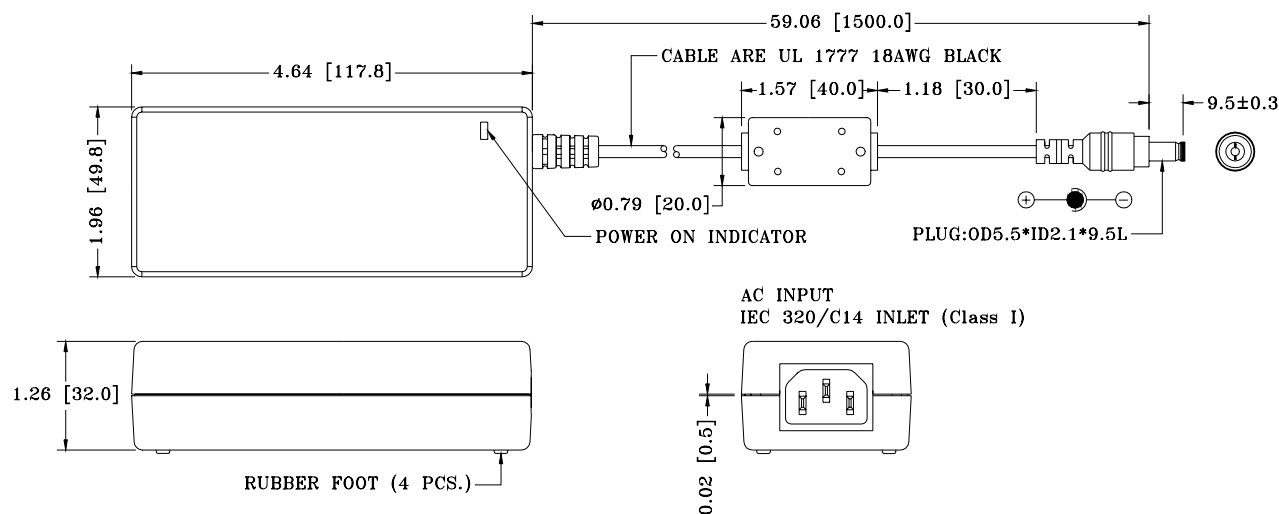
EN55011:	Class B conducted, class B radiated
FCC:	Class B conducted, class B radiated
VCCI:	Class B conducted, class B radiated
EN61000-3-2:	Harmonic distortion, class A
EN61000-3-3:	Line flicker
EN61000-4-2:	ESD, ±8 KV air and ±6 KV contact
EN61000-4-3:	Radiated immunity, 3 V/m
EN61000-4-4:	Fast transient/burst, ±2 KV
EN61000-4-5:	Surge, ±1 KV diff, ±2 KV com.
EN61000-4-6:	Conducted immunity, 3 Vrms
EN61000-4-8:	Magnetic field immunity, 3 A/m
EN61000-4-11:	Voltage dips, 30% reduction for 500 ms, 60% reduction for 100 ms and >95% reduction for 10 ms

## OUTPUT VOLTAGE/CURRENT RATING CHART

Product No.	Output Voltage	Output Current	Tolerance	Output Power
TAM30-05	5V	5A	5%	25W
TAM30-09	9V	3.3A	5%	30W
TAM30-12	12V	2.5A	5%	30W
TAM30-15	15V	2A	5%	30W
TAM30-24	24V	1.25A	5%	30W
TAM30-48	48V	0.625A	5%	30W

NOTE: Ripple and noise: Peak to peak with 20 MHz bandwidth and 47  $\mu$ F tantalum capacitor in parallel with a 0.1  $\mu$ F ceramic capacitor at rated line voltage and load ranges.

## MECHANICAL SPECIFICATIONS



### Notes:

1. Dimensions shown in inches [mm]
2. Tolerance: 0.02 [0.5] maximum
3. Weight: 260 grams (0.57 lbs.) approximately
4. Drawing shows an example of the barrel connector, but please contact TRUMPower for other connector options.
5. The length of the output cable for TAM30-05 and TAM30-09 is 39.37 [1000], 16 AWG