

TWM15 Series  
Class II



## FEATURES

- Class II wall mount adapter with Interchangeable plugs
- High efficiency
- Low ripple & noise
- Overvoltage protection
- Short-circuit 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 264VAC
Input frequency:	47 to 63Hz
Input current:	0.50A (rms) for 115 VAC 0.30A (rms) for 230 VAC
Leakage current:	100 µA max at 264 VAC, 60 Hz

## OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chart
Output power range:	15 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:	-20°C to +80°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 ms minimum at 115 VAC
Turn on delay time:	3 S maximum at 115 VAC
Power Factor:	0.95 typical
Efficiency:	76.5% to 80% min. at 115 VAC or 230 VAC
Line regulation:	±0.5% maximum at full load
Inrush current:	No damage
Withstand voltage:	4000 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 D
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

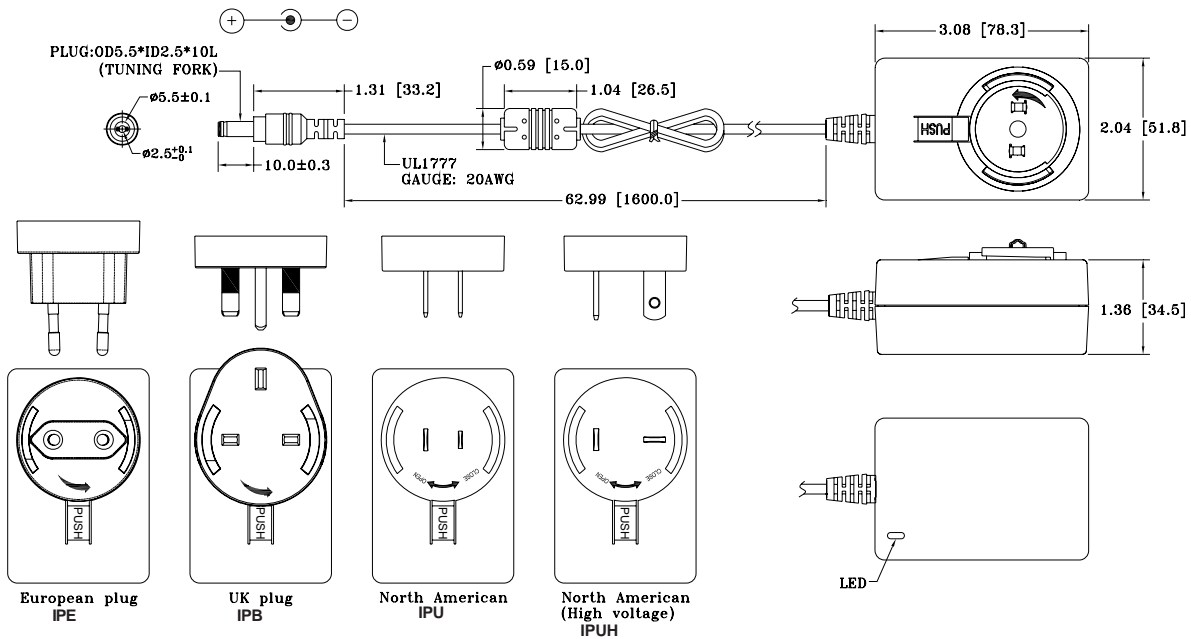
Product No.	Output Voltage	Output Current	Tolerance	Output Power
TWM15-05-I	5V	3A	5%	15W
TWM15-06-I	6V	2.5A	5%	15W
TWM15-09-I	9V	1.6A	5%	15W
TWM15-12-I	12V	1.25A	5%	15W
TWM15-15-I	15V	1A	5%	15W
TWM15-24-I	24V	0.625A	5%	15W

Note: The P/N's above are for the adapter main body. Use the chart below to order interchangeable plugs:

P/N	Interchangeable Plug Type
IPA	Australian
IPB	UK
IPE	EU
IPU*	USA (low voltage)
IPUH*	USA (high voltage)

\*IPU is suitable for 100-120VAC input range.  
 \*IPUH is suitable for 220-240VAC input range.

## MECHANICAL SPECIFICATIONS



Notes:

1. Dimensions shown in inches [mm]
2. Tolerance: 0.02 [0.5] maximum
3. Weight: 200 grams (0.44 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 TWM15-05-I & TWM15-06-I is 39.37 [1000], 16 AWG and for TWM15-09-I is 47.24 [1200], 18 AWG.