



FEATURES

- 5V to 48V Single Output Voltages
- Class II with BF Insulation
- Interchangeable & IP22 Compliant Fixed AC Plugs
- Operation Altitude up to 5,000 Meters
- Approved to IEC/EN/UL 60601-1 Ed. 3.1
- Compliant with DoE Level VI



INPUT SPECIFICATIONS

Input Voltage Range ..... 80-264 VAC  
 Input Frequency ..... 47-63 Hz  
 Input Current ..... 1A (rms) max. @ 115 VAC,  
 0.6A (rms) max. @ 230 VAC  
 Inrush Current ..... 60A max. @ 115 VAC,  
 120A max. @ 230 VAC,  
 at 25°C cold start  
 Touch Current ..... 100 µA max. @ 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS

Output Power Ratings ..... See models list  
 No Load Power Cons. .... 0.1W max.  
 Line Regulation ..... ±1% max.  
 Load Regulation ..... ±5% max.  
 Ripple and Noise\* ..... 1% Vp-p max. of output @ full load  
 Over Voltage Protection ..... Set @ 112-140% max.; Latch off  
 Over Temp. Protection ..... Latch off  
 Short Circuit Protection ..... Auto-recovery  
 Temperature Coefficient ..... ±0.04%/°C max.  
 Transient Response ..... Maximum excursion of 4% or better,  
 recovering to 1% of final value  
 within 500 µs after a 25% step  
 load change

\* Measured with 20MHz bandwidth at nominal line voltage and full load, with a 47µF low ESR electrolytic capacitor in parallel with a 0.1µF multilayer capacitor in parallel across the output.

STANDARDS & COMPLIANCE

IEC/EN 60601-1-2 Ed. 4 .... EMC & Immunity Performance  
 EN 55011 ..... Class B, conducted & radiated  
 FCC, VCCI ..... 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, 9-28 V/m  
 EN 61000-4-4 ..... Fast transient/burst, ±2 KV  
 EN 61000-4-5 ..... Surge, ±1 KV diff.  
 EN 61000-4-6 ..... Conducted immunity, 10 Vrms  
 EN 61000-4-8 ..... Magnetic field immunity, 30 A/m  
 EN 61000-4-11 ..... Voltage dips immunity,  
 30% reduction for 500 ms,  
 >95% reduction for 10 ms  
 Safety Standards ..... IEC/EN/UL 60601-1 (Ed. 3.1),  
 ANSI/AAMI ES 60601-1 (2012),  
 CSA C22.2 No. 60601-1 (2014)  
 Agency Approvals ..... UL, cUL, TUV, CE, CB  
 Other Compliance ..... RoHS, DoE Level VI, ErP Stage 2

GENERAL SPECIFICATIONS

Efficiency ..... 86-87.5% typ. @ full load  
 Hold-Up Time ..... 8 ms min. @ 115 VAC  
 Operation Altitude ..... 5,000 meters max.  
 Operating Temperature ..... -20°C to +60°C  
 Derating ..... Derate from 100% at +40°C linearly  
 to 50% at +60°C  
 Storage Temperature ..... -40°C to +85°C  
 Operating Humidity ..... 10% to 90%, non-condensing  
 Storage Humidity ..... 10% to 90%, non-condensing  
 Withstand Voltage ..... 4,000 VAC, input to output (2 MOPP)  
 MTBF ..... 300,000 hours minimum at full load,  
 25°C ambient, calculated per  
 MIL-HDBK-217F

MODELS LIST

Product No. <sup>(1)</sup>	Output Voltage	Maximum Output Current	Maximum Output Power
TM30W-5-X	5V	4A	20W
TM30W-7.5-X	7.5V	3A	22.5W
TM30W-9-X	9V	3A	27W
TM30W-10-X	10V	2.7A	27W
TM30W-12-X	12V	2.5A	30W
TM30W-15-X	15V	2A	30W
TM30W-18-X	18V	1.67A	30W
TM30W-24-X	24V	1.25A	30W
TM30W-30-X	30V	1A	30W
TM30W-48-X	48V	0.63A	30W

Note (1): X = AC plug code. See the tables and drawings below for details.

X	Fixed Wall Mount Plug
U	US/China Plug
E	EU Plug
I	Main Body only (for interchangeable plugs)

Part No.	Interchangeable Plug
TM-IPU	US/China Plug
TM-IPA	Australian Plug
TM-IPE	EU Plug
TM-IPB	British Plug

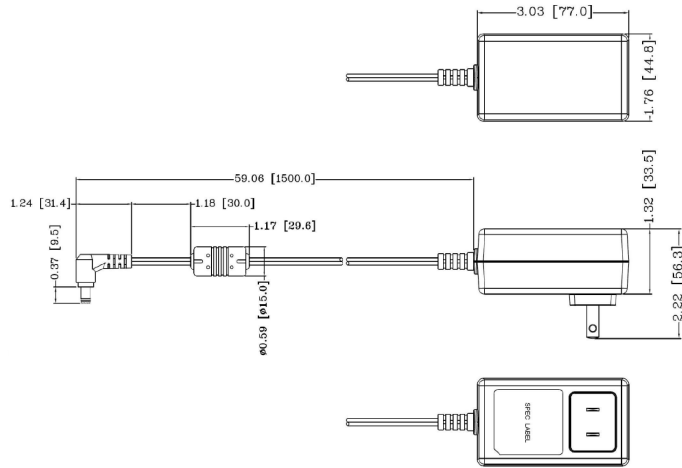
**Note:** The above P/Ns are for interchangeable plugs only without the main body.

Ordering Information:

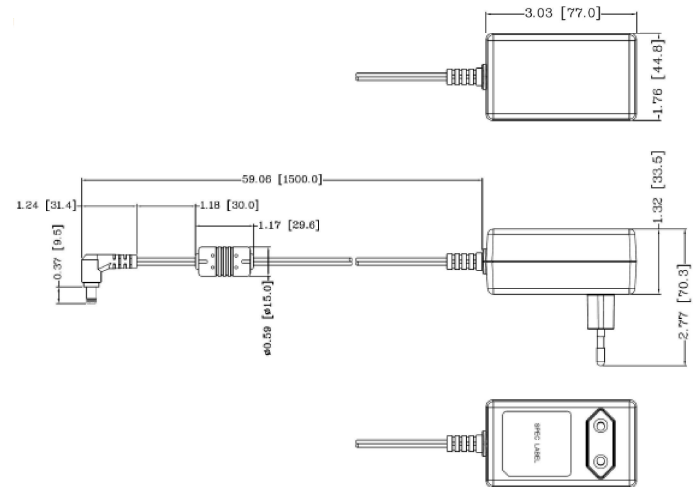
1. Specify the AC plug code when ordering, e.g. TM30W-5-U, TM30W-12-I, etc.
2. For interchangeable plug orders, at least one interchangeable plug must be ordered together with the "main body" (X=I), e.g. TM30W-5-I for 5V output main body, TM-IPE for EU type interchangeable plug, etc.

### MECHANICAL SPECIFICATIONS

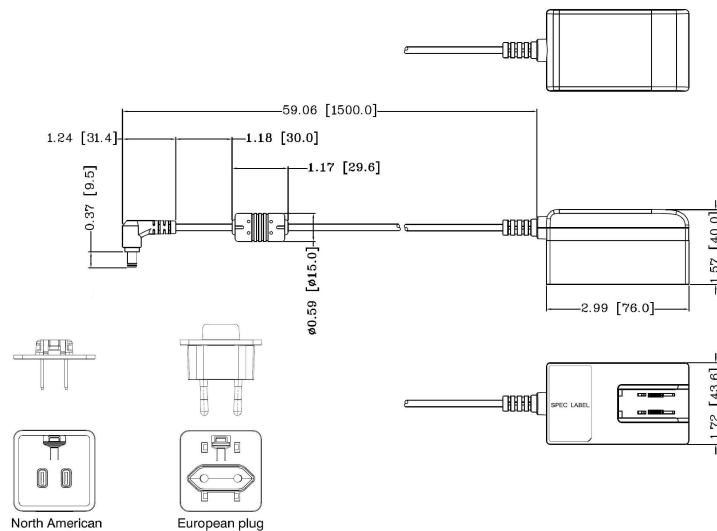
#### FIXED US PLUG MODELS



#### FIXED EU PLUG MODELS



#### INTERCHANGEABLE PLUG MODELS



#### Notes:

1. Unit: inches [mm]
2. Tolerance: 0.02 [0.5mm] max. unless otherwise stated
3. Weight: 168 grams (0.37 lbs.) approx.
3. Standard output connector: 5.5 x 2.5 x 9.5mm right-angle barrel connector, center positive.
4. Contact us for other output connector options.