



**FEATURES**

- IEC 320/C14, IEC 320/C6 Inlets
- USB Type C Connector
- Up to 3A Power Delivery @ 5V/9V/12V/15V/20V
- 500,000 Hours MTBF
- 5,000 Meters Operation Altitude
- Certified to IEC/EN/UL 60950-1 3rd Edition
- CEC Level VI Compliance



**INPUT SPECIFICATIONS**

Input Voltage Range ..... 90-264 VAC  
 Input Frequency ..... 47-63Hz  
 Input Current ..... 2A rms max.  
 Touch Current ..... 250µA max. @ 264 VAC, 50Hz  
 No Load Power Cons. .... 0.1W max.

**OUTPUT SPECIFICATIONS**

Output Voltage ..... 5/9/12/15/20 VDC  
 Output Current ..... 3A max.  
 Line Regulation ..... ±1% max. @ full load  
 Ripple and Noise\* ..... 200 mVp-p  
 Overvoltage Protection ..... Set at 110-155% of its nominal output voltage; Latch off  
 Short-Circuit Protection ..... Auto-recovery  
 Overcurrent Protection ..... All models protected to short circuit conditions; Auto-recovery  
 Over Temp. Protection ..... Latch off  
 Temperature Coefficient ..... ±0.04%/°C max.  
 Transient Response ..... Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500 µs after a 25% step load change

\* Measured with 20MHz bandwidth at rated line voltage and output load ranges, with a 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor in parallel across the output.

**GENERAL SPECIFICATIONS**

Average Efficiency ..... 80-89%  
 Switching Frequency ..... 50-60KHz  
 Start-Up Time ..... 3 sec. max. @ 100 VAC  
 Hold-Up Time ..... 5 ms min. @ 100 VAC or 230 VAC  
 Operating Altitude ..... 5,000 meters max.  
 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 ..... 1,500 VAC input-output  
 MTBF ..... 500K hours minimum at full load, 25°C ambient, calculated per SR332

**MODELS LIST**

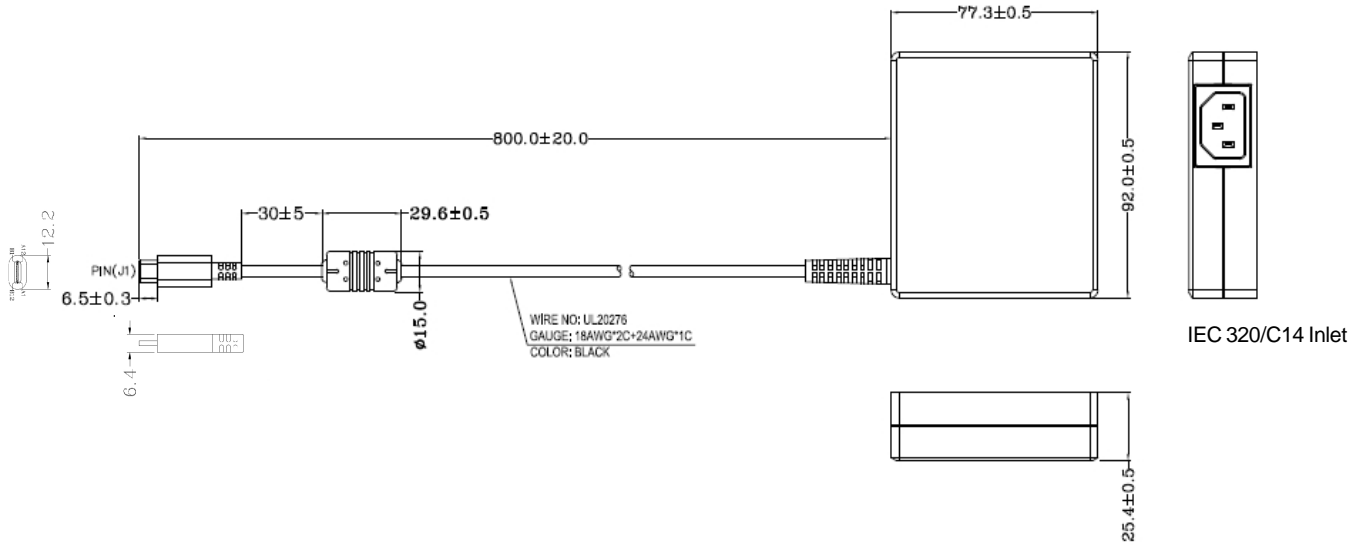
Product No.	AC Inlet	Output Voltage	Maximum Output Current	Total Regulation	Maximum Power
TPD60-4	C14	5/9/12/15/20V	3A	±5%	60W
TPD60-6	C6	5/9/12/15/20V	3A	±5%	60W

**STANDARDS & COMPLIANCE**

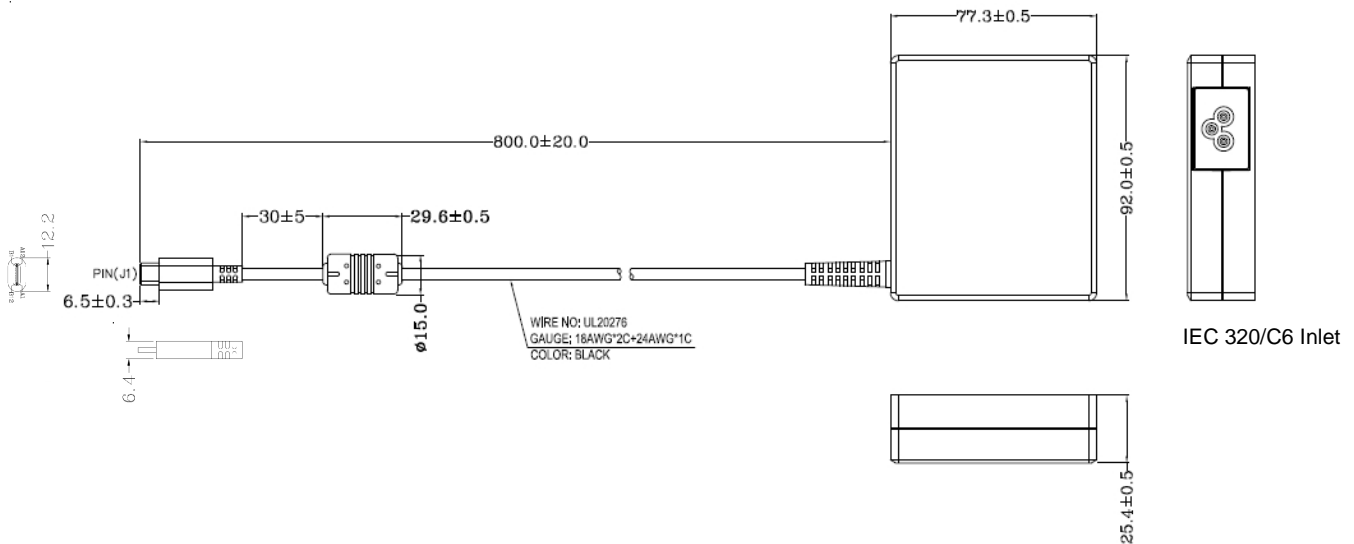
EN 55022, EN 55024 ..... Class B, conducted & radiated  
 FCC, VCCI ..... Class B, conducted & radiated  
 EN 61000-3-2 ..... Harmonic distortion, Class D  
 EN 61000-3-3 ..... Line flicker  
 EN 61000-4-2 ..... ESD, ±8 KV air and ±4 KV contact  
 EN 61000-4-3 ..... Radiated immunity, 3V/m  
 EN 61000-4-4 ..... Fast transient/burst, ±1 KV  
 EN 61000-4-5 ..... Surge, ±1 KV diff., ±2 KV com.  
 EN 61000-4-6 ..... Conducted immunity, 3 Vrms  
 EN 61000-4-8 ..... Magnetic field immunity, 1A/m  
 EN 61000-4-11 ..... Voltage dip immunity, 30% reduction for 500ms, >95% reduction for 10ms  
 Safety Standards ..... UL/IEC/EN 60950-1 (3<sup>rd</sup> Edition) CSA C22.2 No. 60950-1 (3<sup>rd</sup> Edition)  
 Agency Approvals ..... UL, cUL, TUV/GS, CE, CB  
 Other Compliance ..... RoHS, Energy Star 2.0 / ErP Lot 7, DoE Level VI

### MECHANICAL SPECIFICATIONS

TPD60-4



TPD60-6



DC OUTPUT CONNECTOR J1	
PIN	FUNCTION
A1, A12, B1, B12, Shell	GND
A4, A9, B4, B9	VBUS
A5	CCI

- Notes:
1. Unit: mm
  2. Weight: 450g (0.99 lbs) approx.
  3. AC inlet: IEC 320/C14 or IEC 320/C6
  4. Output connector: USB type C