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
<table>
<thead>
<tr>
<th>Product No.</th>
<th>AC Inlet</th>
<th>Output Voltage</th>
<th>Maximum Output Current</th>
<th>Total Regulation</th>
<th>Maximum Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPD60-4</td>
<td>C14</td>
<td>5/9/12/15/20V</td>
<td>3A</td>
<td>±5%</td>
<td>60W</td>
</tr>
<tr>
<td>TPD60-6</td>
<td>C6</td>
<td>5/9/12/15/20V</td>
<td>3A</td>
<td>±5%</td>
<td>60W</td>
</tr>
</tbody>
</table>

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 (3rd Edition)
- CSA C22.2 No. 60950-1 (3rd Edition)
- Agency Approvals .......... UL, cUL, TUV/GS, CE, CB
- Other Compliance .......... RoHS, Energy Star 2.0 / ErP Lot 7, DoE Level VI
TPD60 Series

60 Watt USB-C Power Adapters

MECHANICAL SPECIFICATIONS

TPD60-4

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

TPD60-6

DC OUTPUT CONNECTOR J1

<table>
<thead>
<tr>
<th>PIN</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1, A12, B1, B12, Shell</td>
<td>GND</td>
</tr>
<tr>
<td>A4, A9, B4, B9</td>
<td>VBUS</td>
</tr>
<tr>
<td>A5</td>
<td>CCI</td>
</tr>
</tbody>
</table>

Notes:
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2. Weight: 450g (0.99 lbs) approx.
3. AC inlet: IEC 320/C14 or IEC 320/C6
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