



FEATURES

- USB Type C Connector
- Up to 3.25A Power Delivery @ 5V/9V/12V/15V/20V
- IEC 320/C6, C14 Inlet
- 300,000 Hours MTBF
- 5,000 Meters Operation Altitude
- DOE Level VI & ErP Tier 2 Compliance



INPUT SPECIFICATIONS

Input Voltage Range 90~264 VAC
 Input Frequency 47~63 Hz
 Input Current 1.7A rms max. @ 100 VAC,
 0.5A rms max. @ 240VAC
 Earth Leakage Current 100 µA max. @ 264 VAC, 63Hz
 Touch Current 100 µA max. @ 264 VAC, 63Hz
 No Load Power Cons 0.1W max. for all outputs except 5V
 (0.5W max.)

OUTPUT SPECIFICATIONS

Output Power Ratings 5/9/12/15/20 VDC
 Tolerance ±5% max. @ full load
 Ripple and Noise* 200 mVp-p
 Short Circuit Protection Shut down; Auto-recovery
 Over Voltage Protection Shut down; Latch mode
 Over Power Protection Shut down; Auto-recovery
 Over Current Protection Shut down; Auto-recovery
 Over Temp. Protection Shut down
 Temperature Coefficient ±0.04%/°C max.
 Transient Response Max. excursion of 4% or better
 on all models, recovering to 1%
 of final value within 500 us 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

Switching Frequency 65 kHz
 Efficiency 88% min. @ full load
 Turn On Delay Time 3 sec. max @ full load
 Hold-up Time ≥ 6ms max. @ full load
 Line Regulation ±10% max. @ full load
 Operating Temperature 0°C to +70°C
 Storage Temperature -20°C to +60°C
 Operating Humidity 0% to 90% non-condensing
 Storage Humidity 0% to 95% non-condensing
 Derating Derate from 100% at +40°C linearly
 to 50% at +70°C
 Withstand Voltage 4,000 VAC input-output (2 MOPP),
 1,500 VAC input-ground (1 MOPP)
 MTBF 300,000 hours min. at full load,
 25°C ambient, calculated per
 SR-332

MODELS LIST

Product No.	Output Voltage	Output Current	Total Regulation	Maximum Power
TMPD65-X	5V	3A	±5%	65W
	9V	3A		
	12V	3A		
	15V	3A		
	20V	3.25A		

Notes:

1. X = 4 (for C14) or 6 (for C6), e.g. TMPD65-6.

STANDARDS & COMPLIANCE

IEC/EN 60601-1-2: Ed. 4.1 EMC & Immunity performance
 IEC/EN 55011, EN 55032 ... Class B, conducted & radiated
 EN 61000-3-2 Harmonic distortion, Class A
 EN 61000-3-3 Line fluctuations & flicker
 EN 61000-4-2 ESD, ±15 KV air and ±8 KV contact
 EN 61000-4-3 Radiated immunity, 3 V/m
 EN 61000-4-4 Fast transient/burst, ±2 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, 1 A/m
 EN 61000-4-11 Voltage dip immunity,

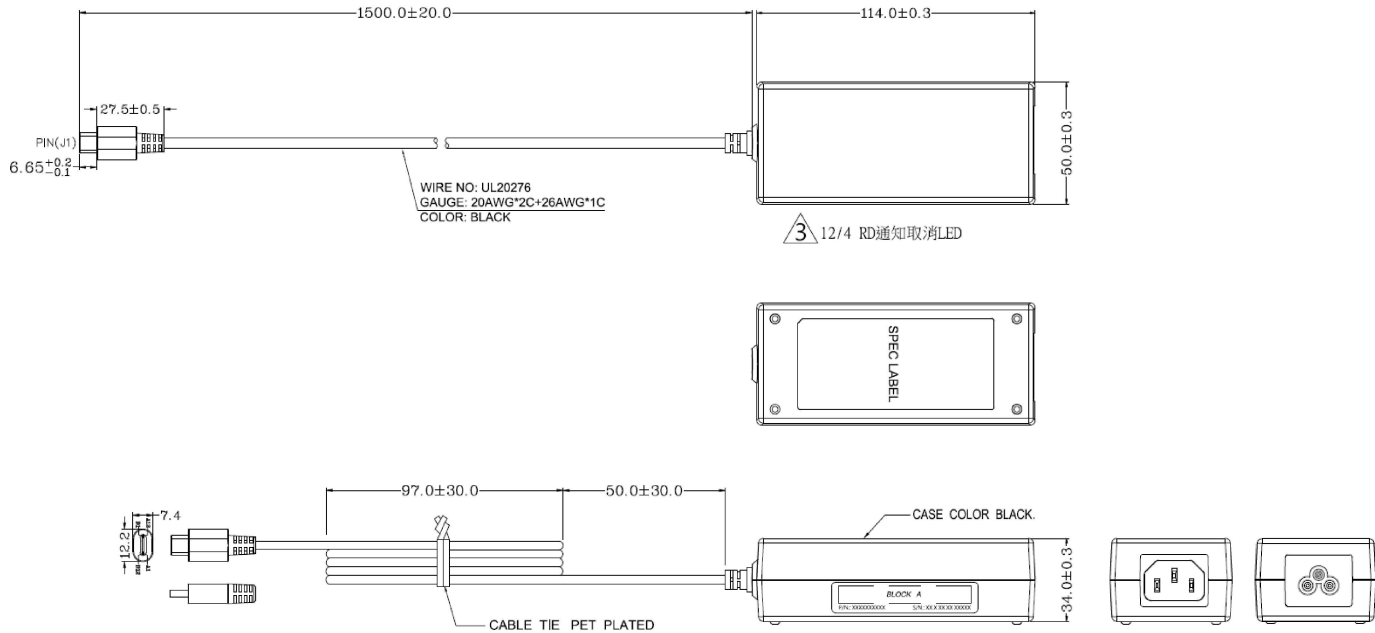
30% reduction for 30 cycles,
 100% reduction for 300 cycles
 Safety Standards UL/IEC/EN 60601-1 (Edition 3.2),
 ANSI/AAMI ES 60601-1 (2021),
 CSA C22.2 No. 60601-1 (2022),
 IEC 62368-1 (3rd Edition)

Agency Approvals UL, cUL, TUV, CB, CE
 Other Compliance RoHS, DOE Level VI, ErP Tier 2

TMPD65 Series

65 Watts Medical Grade USB-C Power Adapters

MECHANICAL SPECIFICATIONS



DC OUTPUT CONNECTOR	
PIN	FUNCTION
A4, B4, A9, B9	VBUS
A5	CC
A1, B1, A12, B12, SHELL	GND

Notes:

- 1) Units: mm
- 2) AC Inlet: IEC 320/C14, C6
- 3) Output Connector: USB Type C
- 4) Weight: 200 grams (0.44 lbs.) approx.