



FEATURES

- PS/2 ATX Form Factor
- Meets ATX12V Standards
- 80 Plus Bronze Efficiency Level
- Meets IEC/EN 60601-1-2 4th Edition Medical EMC
- Approved to IEC/EN/UL 60601-1 3.1 Edition
- CCC & KC Certified



INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC
Input Frequency	47-63Hz
Input Current	10A rms max. @ 115 VAC
	5A rms max. @ 240 VAC
Inrush Current	50A @ 115 VAC, 100A @ 230 VAC,
	at 25°C cold start
Earth Leakage Current	100µA max. @ 115 VAC, 60Hz
	150µA max. @ 264 VAC, 50Hz

OUTPUT SPECIFICATIONS

Output Power Ratings	See rating chart
Load Regulation	See rating chart
Line Regulation	±0.5% max. at full load
Ripple & Noise*	See rating chart
Hold-up Time	13ms min. @ 110/230 VAC
Switching Frequency	85KHz typ.
Overvoltage Protection, +3.3V ...	3.7~4.8V
	+5V 5.7~7.0V
	+12V 13.4~16.0V
Overcurrent Protection, +3.3V	38~48A
	+5V 35~50A
	+12V 20~28A
Short-Circuit Protection	On +3.3V, +5V & +12V outputs
Temperature Coefficient	±0.04%/°C max.

* Measured with 20MHz bandwidth at rated line voltage and output load ranges, with a 47µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor in parallel across the output.

OUTPUT VOLTAGE & CURRENT RATING CHART				
Ouput Voltage	Minimum Load	*Maximum Load	Load Regulation	Ripple & Noise VP-P Max.
+3.3V	0.5A	24A	±5%	50mV
+5V	0.5A	30A	±5%	50mV
+12V ₁	0.5A	16A	±5%	120mV
+12V ₂	0.5A	16A	±5%	120mV
+12V ₃	0.5A	16A	±5%	120mV
+12V ₄	0.5A	16A	±5%	120mV
-12V	0.05A	0.5A	±10%	120mV
+5Vsb	0.1A	3.5A	±5%	50mV
-5V	0A	0.2A	±10%	100mV

* The overall output power is 700W maximum.
 * The total output power for +3.3V & +5V is 180W maximum .
 * The total output current for +12V₁, +12V₂, +12V₃ & +12V₄ is 50A maximum.

GENERAL SPECIFICATIONS

Efficiency	82% min. at full load
Operating Temperature	0°C to +50°C
Derating	Derate from 100% @ +50°C linearly to 50% @ +70°C
Storage Temperature	-20°C to +80°C
Relative Humidity	5% to 95% non-condensing
Withstand Voltage	1500 VAC from input to ground
Operating Altitude	5,000 meters max.
MTBF	146K hours minimum at full load & 25°C ambient, calculated per MIL-HDBK-217F

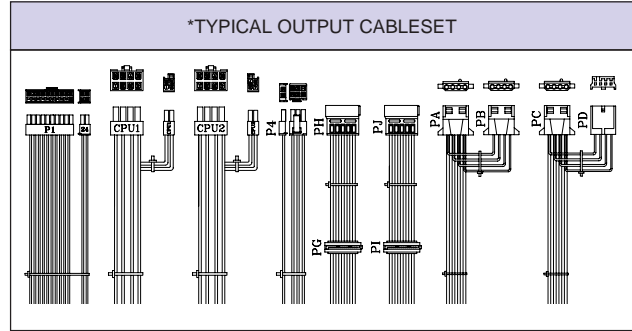
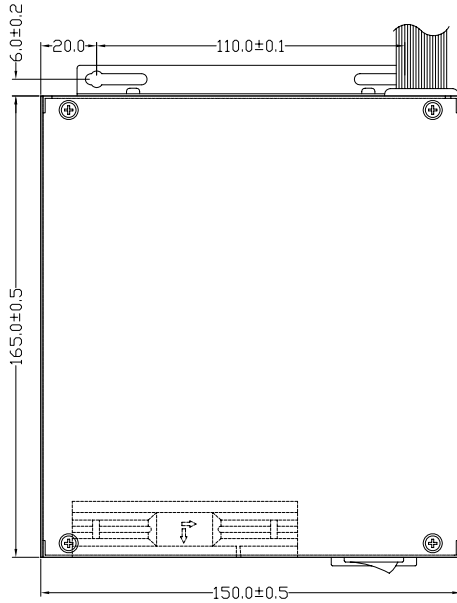
STANDARDS & COMPLIANCES

IEC/EN 60601-1-2: 2014 ...	EMC & Immunity Performance
EN 55011 / EN 55022	Class B, conducted & radiated
FCC / VCCI	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, 6 Vrms
EN 61000-4-8	Magnetic field immunity, 30 A/m
EN 61000-4-11	Voltage dip immunity, 30% reduction for 500ms, 60% reduction for 100ms and >95% reduction for 10ms
Safety Standards	UL/IEC/EN 60601-1 (Edition 3.1), ANSI/AAMI ES 60601-1 (2012), CAN/CSA C22.2 No. 60601-1 (2014); IEC 60950-1 (2nd Edition)
Agency Approvals	UL, cUL, TUV, CE, CB, CCC, KC
Other Compliance	RoHS, 80PLUS

TMPC-700

Medical Grade 700W ATX PC Power Supply

MECHANICAL SPECIFICATIONS



*Custom output cablesets available

