PFC800PCX – 800 Watt Medical-Grade Power Supply

The PFC800PCX 800W ATX PSU is the solution for high-power medical device applications. This highly reliable power supply is able to run two high-end graphics cards and is ideally suited for applications that are graphics-intensive. With multiple EMC Compliances ranging from EN55011 to EN61000, the PFC800PCX is the ideal power supply to include in embedded medical devices.

SPECIFICATIONS

Input	Input Voltage Range: 100 to 240 Vac ±10%; Supply Overvoltage: Cat Two < 300V; Input Current: 10A max.; Frequency: 50/60 Hz; Inrush Current: 45A cold @ 240 Vac; Efficiency: 80% typ.; PFC Correction: Active > .95; Leakage Current: < 250uA @ 264 Vac 60 Hz; Input Fuses: 2X 10A 250V Line & Neutral
Output	Max. Output Power: 750W cont. 800Wp (see note 5); Hold-Up Time: > 40ms @ full load; Overvoltage Protection: +15% of set voltage; Minimum Loading: None; Cross Regulation: < 0.5%; Line Regulation: < 0.05%; Load Regulation: < 1% ± cable factor; AC Turn-On Time: < 2 sec Output Voltage (±3%) +12V +5V +3.3V -12V -5Vsb Output Current Max. 62.5A/67A 24A 24A 0.5A 3.0A/3.5A Ripple mV p-p 100 50 50 100 50
Reliability	MTBF (demonstrated): > 500,000 hours; Expected Life: > 8 years when used as specified
Environmental	Op. Temperature: 0 to 50°C; Storage Temperature: -40 to 80°C; Operational Humidity: 0 to 95% nc; Storage Humidity: 0 to 95% nc; Operational Altitude: -500 to 9840 ft; Storage Altitude: -500 to 40,000 ft Pollution Degree Class: Two
EMC Compliance	EN55011 Conducted and Radiated Emissions; EN61000-3-2 Harmonics; EN61000-3-3 Flicker; EN61000-4-2 ESD Level 3; EN61000-4-3 RF Susceptibility 10V/m; EN61000-4-4 EFT Level 3; EN61000-4-5 Surge Level 3; EN61000-4-6 RF Conducted Immunity; EN61000-4-11 Voltage Dips, Short Interruptions; EN61000-4-39 Magnetic Fields;
Standards Compliance	ATX 3.0; ISO 9001:2015; EN60601-1 / ES60601-1 3rd edition; UL file E191947; Platform Form Factors: 2018 Rev 002; Lead free RoHS and REACH compliant; ECCN# EAR99 Conflict Material Compliant; Recommended Line Cord: SJT, 3X16 or 3X14 AWG

Safety Standards	IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007); ANSI/AAMI ES60601-1:2005 (Medical Electrical; Equipment – Part 1: General Requirements for Basic; Safety and Essential Performance); CAN/CSA-C22.2 No. 60601-1 (2008) (Medical Electrical; Equipment – Part 1: General Requirements for Basic Safety and Essential Performance) Patient Protection: Two MOPP
Global P/N / SKU	3107937

Notes

1. Max. output from +5V & +3.3V = 140W. When loading the +5V and +3.3V, multiple total load by 1.2 and subtract from 750W/800W 2. Over current for +12V reset is accomplished by cycling power on signal 3. Over current for +5V, +3.3V, -12V, & +5Vsb auto resetting 4. Derate output 9W/volt input from 100 Vac to 90 Vac 5. 10s every 50s