



Sevenstar	Model: ST-2000K			
	ATX SWITCHING POWER SUPPLY			
Version: Revision	1.0	2000/01/01	2000/01/01	1.0
ATX Date	2000/01/01	2000/01/01	2000/01/01	1.0

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Mr. Rohit Manglik

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INSTRUMENTATION Dr. Rekha Annigeri, 2024-05-29 Power electronics and electronic instrumentation are two important subfields that fall under the umbrella of electrical engineering These subfields play a crucial role in the effective management and conversion of electrical power Electricity electronics is the study and use of electronic devices and systems that are used to convert and manage electricity from a variety of sources to the required forms This ensures that the power is converted and managed in a manner that is both efficient and reliable Applications of power electronics include anything from electric automobiles to renewable energy systems For the purpose of facilitating the transformation and control of electrical energy this area makes use of semiconductor devices such as diodes transistors and thyristors Electronic instrumentation on the other hand is concerned with the development and use of instruments that are used for the purpose of measuring monitoring and regulating electrical quantities For the purpose of ensuring accurate data collecting signal processing and interpretation this approach requires the use of advanced methods and technologies In addition to contributing to the creation of creative solutions across a wide range of sectors both of these disciplines play an important role in the progression of technology and the enhancement of energy efficiency The convergence of power electronics and electronic instrumentation is the driving force behind the development of intelligent and environmentally friendly electrical systems in the future This convergence is the foundation for breakthroughs in automation smart grids and industrial processes Both the performance and functionality of current electronic systems are going to be significantly improved as a result of these improvements which are essential in meeting the rising need for environmentally friendly energy solutions The ability to integrate renewable energy sources like solar and wind into the power grid in an effective manner is made

possible by power electronics This allows for the optimization of energy storage and delivery Innovations in this area lead to the development of high efficiency power converters inverters and motor drives all of which are important for electric cars These innovations help reduce carbon emissions and dependence on fossil fuels **IOT** (Internet of Things) (Rohit Manglik)

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