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DESIGN AND SIMULATION OF GEOSTATIONARY METEOROLOGICAL SATELLITE POWER  
SYSTEM

**Abstract**

FY-4 which is the second-generation geostationary meteorological satellite is able to get to multi-spectral, high-precision quantitative observational data and images of the Earth's surface and cloud, while also allows for vertical structure observations and lightning imaging observations of atmospheric temperature and humidity, multi-function, high observation frequency and precision. Compared with the first generation of geostationary meteorological satellite FY-2, the control mode changed to three-axis stabilized by the spin-stabilized, power dissipation from 300W up to 3000W, life span from 3-4 years up to 7 years, the proportion of power subsystem's quality of the whole satellite dropped to 7.5