

Spacecraft Power Technologies

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Spacecraft Power Systems. Power System Functional Block Diagram. Power Source. PV Technologies. v Semicrystalline and Polycrystalline. Production molten silicon poured into rectangular crucible under controlled cooling rate form partial and/or multiple crystals. Spacecraft Power. Rewind 10 Seconds. Next Up. There are no gas stations or power outlets in space. That's why NASA's Curiosity rover on Mars and some other NASA spacecraft that explore the solar system use something called "radioisotope power." NASA's Jet Propulsion Laboratory is working with the Department of Energy on ways to make the next generation of radioisotope power systems even more powerful and capable. Environmental factors solar energy conversion chemical storage and generation systems nuclear systems static energy conversion dynamic energy conversion power management and distribution thermal management.