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Everything on board operates electrically. Solar cells are large arrays of photocells connected in various series and parallel circuits as d.c. source. Solar panels are capable of generating many kilowatts. All solar panels always be pointed towards the sun, Solar panels generate a direct current that is used to operate the various components of satellite. D.C. power is used to charge the batteries which provides d.c. current to component of satellite when solar panels are not properly positioned. Voltage regulators are used to power individual electronic circuits.

Some components like TWT amplifier in transponder requires very high d.c. voltage to operate, so d.c. to d.c. converter is used to rais the level of low voltages to high voltage.

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Vidyalankar