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OPTIMIZATION OF POWER TRANSFER IN A SOLAR ENERGY SYSTEM

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ABSTRACT This article presents an approach to maximize the transfer of power to all load elements in a solar energy system. Transfer of power from the solar panel to batteries and motor utilizes a maximum-power-point-tracker (MPPT) and a DC/DC converter. This converter operates on optimum transformation ratios. Losses of the motor are minimized such that the energy fed to the load is kept minimum.