**PHOTOVOLTAIC STREET LIGHTING USING BOOST CONVERTER**

ABSTRACT

This paper presents a non-isolated high frequencyDC-DC converter, which integrates a battery charger,photovoltaic panels, and a high voltage gain boost converter in asingle conversion stage with soft-switching characteristic.a low costmicrocontroller is proposed to handle the operation of the wholesystem.The storage system will be charged duringthe day time using the available sunlight &during the night time the controller will give a signal to thesystem to connect the LED lamp to be ready for use. Since theLED needs a low dc voltage to be operated, a simple dc-dcconverter will be enough for this system resulting in decreasingthe cost of the overall system.By this proposedsystem, streets can be illuminated with lower power lamps, nooperating costs, no CO2 emissions, grid energy-free andenvironmentally friendly.

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