ABSTRACT

Alternative energy like photovoltaic cell and fuel cell generate a form of renewable electricity, particularly useful in situations where electrical power from the grid is unavailable such as in remote area power systems. But, lowering of output power represent issue to emerge when this energy used. The operating point of a photovoltaic generator that is connected to a load is determined by the intersection point of its characteristic curves. In general, this point is not the same as the generator’s maximum power point. This difference means losses in the system performance. DC/DC converters together with maximum power point tracking systems (MPPT) are used to avoid these losses, MPPT is used in PV power systems to force the PV module operating at MPP in order to got value $R_i = R_L$. In this way the PV module produces the maximum power output, therefore buck-boost converter selected because can force solar panel to be yielding higher level output power of solar panel and this converter can achieving a higher MPP-tracking efficiency.
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