

experimentally with a 12V, 2A converter with input voltages (different radiation levels) .MATLAB/Simulink software has been used to simulate SEPIC converter. Compared to many existing methods, the proposed technique is unnecessary to

- 1) Perform digital sampling of the converter parameters.
- 2) Perform sophisticated mathematical computations of the panel output power.
- 3) Approximate the panel output characteristics.

Hence, it can be used under a wide range of meteorological conditions.

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