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where I_{pv} is the current produced by incident light (A), I_o is the leakage current of a diode (A), q is the charge of an electron (1.60217×10^{-19} C), k is the Boltzmann constant (1.38065×10^{-23} J/k), α is the diode ideality constant ($1 < \alpha < 1.5$), R_s is the equivalent PV array series resistance

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The maximum power enhancement was about 2.5 W and occurred at solar noon when using 10 aluminum fins. The peak efficiency value of the PV panel with fin cooling was about 15.3% against 14% for the unfinned PV panel.

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