Design and implementation for photovoltaic monitoring system

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ABSTRACT

This paper originally presents a model-based photovoltaic (PV) performance monitoring system with an on-line diagnosis function in the LabVIEW environment. We apply NI PCI6024E which manufacture by National Instrument to measure main parameters such as irradiance, cell temperature, output voltage, current and power of a PV module without common digital measure instruments to monitor PV module directly. During the process of receiving the signals, it may receive unusual signal. By the time, we can adjust signal through the circuits which made by sensors. It makes the acquisition process successfully. Keywords: LabVIEW, PV module, monitoring system, sensor

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