

Solar system with inverter charger Growatt SPF 8000T DVM-MPV, system with deficiency causing much inconvenience to the user, a small study was made to the solar system to find possible faults that cause the deficiency of the system, the connections in the inverter were verified achieving to find false contact causing burned wires in the output terminals, this situation caused voltage fluctuations, the inverter shuts down unexpectedly even when the batteries are charged. The solar modules are vulnerable to wind gusts in the area, the support structure is strong but the anchors to the modules are not correctly distributed, they should be at 25% of each end of the module. This has caused one of the modules to be completely damaged because the center of the module was very weak. One of the modules has a burned cell causing low energy production. To solve the deficiency of the solar system, the inverter software should be upgraded to the latest version, the structure should be reassembled to the correct measurements and the damaged modules should be replaced if possible to increase the energy storage capacity. It is important to add the monitoring system to verify the behavior of the system.

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