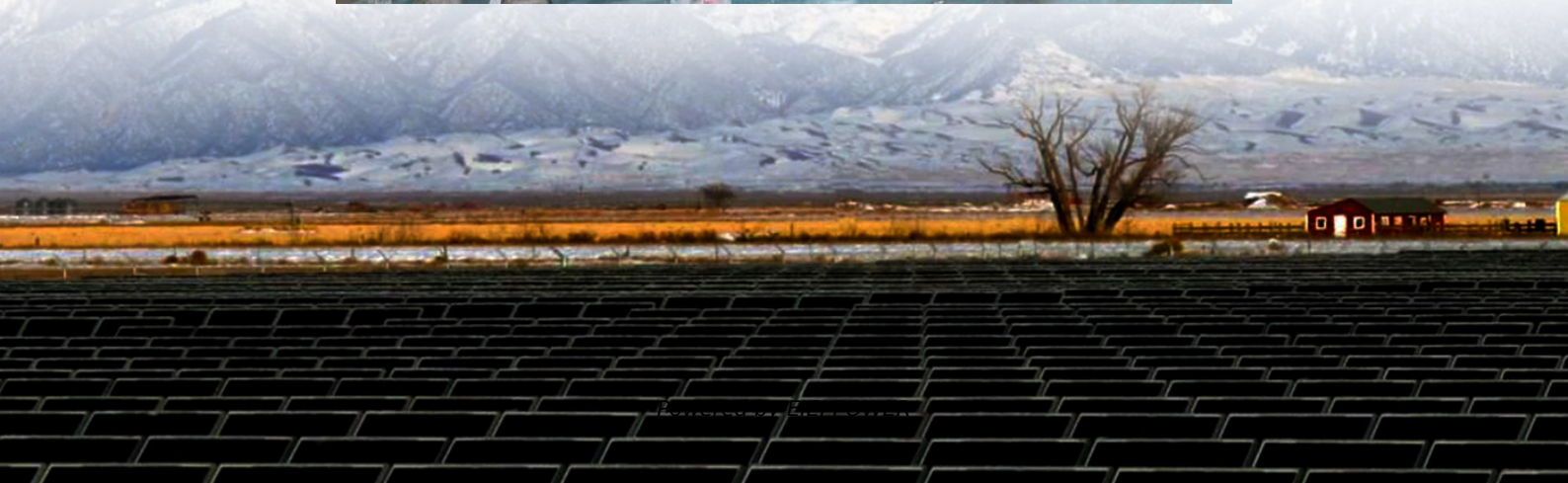


Antananarivo Global Communications Base Station Inverter Connected to the Grid





Overview

The proliferation of solar power plants has begun to have an impact on utility grid operation, stability, and security. As a result, several governments have developed additional regulations for solar photov.

What are the control objectives of grid-connected inverter?

The grid-connected inverter can distribute the active and reactive power according to the control. Therefore, the control objectives are designed as tracking active power and reactive power. The parameters of devices and circuits are shown in Table 13.1.

What are the parameters of a grid-connected inverter system?

Parameters of the grid-connected inverter system. The simulations of the steady-state operations are carried out when the MPC method is used. The given active power is 1000 W, and the given reactive power is 0 Var. The grid-connected currents are shown in Fig. 13.7A, and the spectrogram of the currents is shown in Fig. 13.7B.

How does DBN-MPC work in a grid-connected inverter system?

By minimizing the cost function g , the optimal switching state combination is evaluated and applied to the grid-connected inverter system. Therefore, the inverter can operate in the condition that the output active power and reactive power are optimal. Figure 13.6. The schematic of the DBN-MPC method applied in a grid-connected inverter system.

How is a grid-connected inverter system simulated?

The test system is described shown in Fig. 13.6, the grid-connected inverter system is simulated using Matlab/Simulink. The simulation model mainly includes the main circuit module and the control module of a three-phase two-level inverter. The grid-connected inverter can distribute the active and reactive power according to the control.



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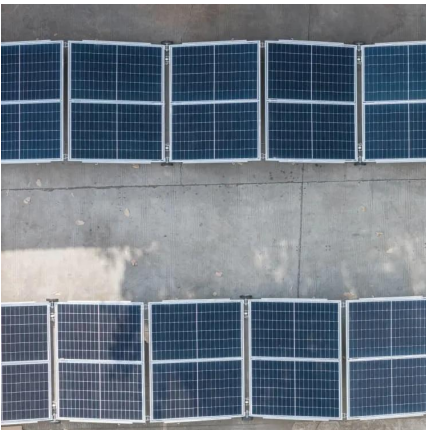
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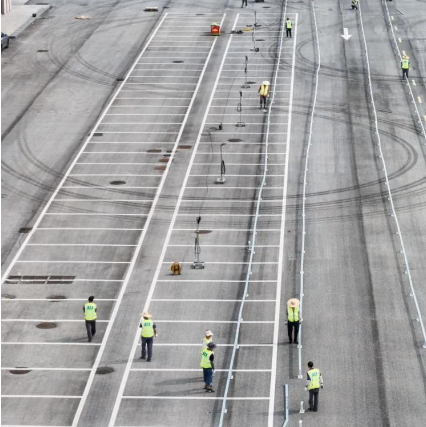
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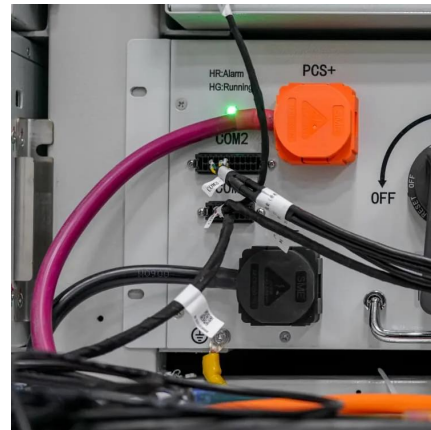
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