# Industrial frequency photovoltaic inverter and mains complement

What is the control performance of PV inverters?

The control performance of PV inverters determines the system's stability and reliability. Conventional control is the foundation for intelligent optimization of grid-connected PV systems. Therefore,a brief overview of these typical controls should be given to lay the theoretical foundation of further contents.

How intelligent is a PV inverter system?

Although various intelligent technologies have been used in a PV inverter system,the intelligence of the whole system is still at a rather low level. The intelligent methods are mainly utilized together with the traditional controllers to improve the system control speed and reliability.

Do current power systems support the integration of PV?

Current power systems are notdesigned to support the massive integration of PV and to respond to the grid codes. The application of intelligent and online control methods for better coordination between all parts of modern electrical systems is very important.

What is V/F control of inverter?

V/F control of inverters. Inverter V/F control is used for PV islanding operation and weak grid situations to support system voltage and frequency. When employing a master-slave control strategy,the V/F control needs to support the voltage and frequency of the entire network .

How diversified and multifunctional inverters are used in PV system?

The advanced functionalities can be accomplished by using diversified and multifunctional inverters in the PV system. Inverters can either be connected in shunt or series to the utility grid. The series connected inverters are employed for compensating the asymmetries of the non-linear loads or the grid by injecting the negative sequence voltage.

Why is FLC used in PV inverter control loops?

In summary,FLC can improve the dynamic and static performanceand is therefore widely used in many control loops of the PV inverter system. In particular,for some nonlinear and complex coupling situations,fuzzy control can avoid the difficulties of system modeling and facilitate control optimization.

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