

PV/DG Hybrid System

Description

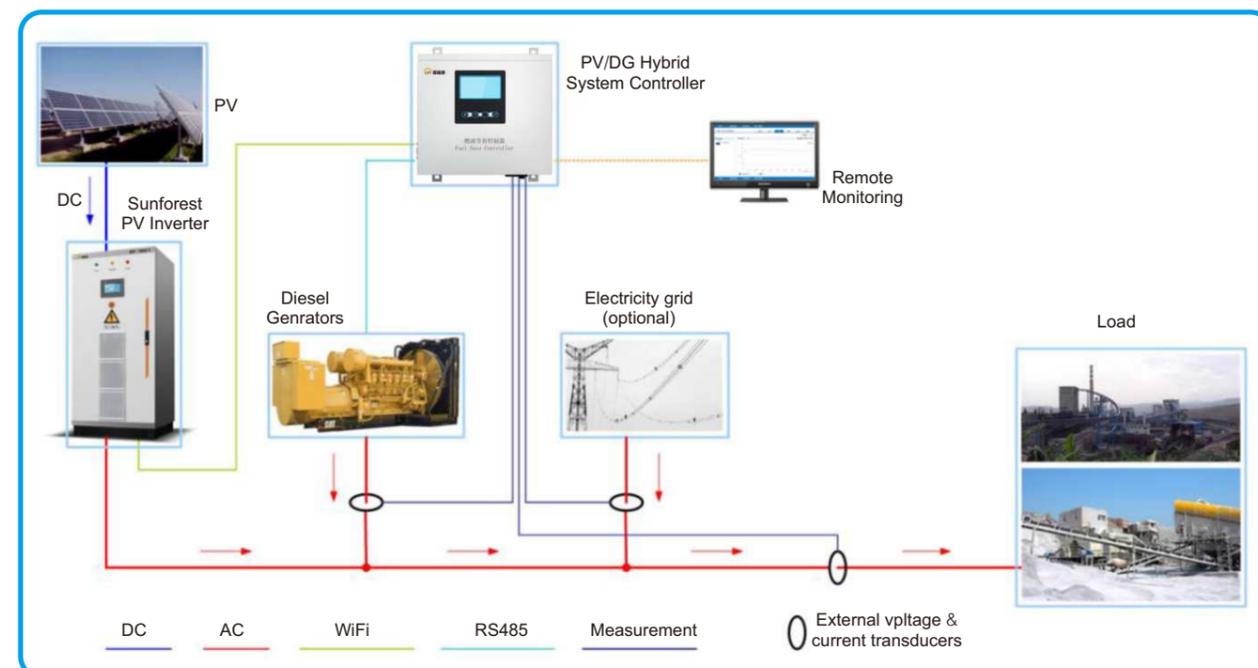
In some factories or mine areas which use the large-scale fuel generator as the power supply, the fuel cost is too high. However, with the PV solar power and fuel generator running as a hybrid system, the fuel cost can be largely reduced, thus, the electricity generation cost can be cut down, meanwhile, less pollution emits to the environment.

The fuel saving solution which raised by JFY is based on the fuel generator, by adding the fuel saving controller, integrate JFY PV inverter into the fuel generator network, make the two power generating device supply power to the load, so that decrease the fuel generator penetration in a high extent, reduce fuel consumption, get the aim of fuel saving(refer to the block circuit diagram). The JFY fuel saving system doesn't require large-scale battery, also the initial investment is not high, which can make sure the grid reliable and stable.

Features

- The power plant is simplified and feasible with a short construction period
- No energy storage part, with a low investment and operating costs
- Stable Grid feeding and good anti-impact effect
- PV power generation directly feeding into the fuel generator network, reduce generator working and save fuel largely.

Block Circuit Diagram



Fuel Save Controller

Features



- Simplified and Feasible
With the control cables and simple settings, implementing the PV/fuel generator operating in parallel as a hybrid power supply system
- Stable and Reliable
Detecting the fuel generator and load power in real time, adjusting the PV inverter output automatically; meanwhile having the fuel generator reversed power input protection, optimized communication and Minimum power protection, ensuring the grid stable and reliable.
- Economic and Green Power
The controller can make the PV inverter and fuel generator operating in parallel to supply for the load, no battery needed. So it is low-cost, fuel saving and friendly to the environment.

Description

JFY fuel save controller offers a actual solution for JFY grid-tied inverter and large-scale fuel generator feed into the grid directly. JFY fuel save controller does a real time acquisition and detection of the fuel generator and load power, and adjusts the inverter output accordingly. The control machine has the fuel generator reversed power input protection function, avoiding fuel generator rotating reversely. Inverter will stop feeding when with little load to ensure the grid stabilization. The controller records, processes and saves the system operating data, users can check the data and monitoring via the UI. The fuel save controller always plays a core part in this grid-tied system.

The main function of JFY fuel save controller:

- The fuel generator power and status detecting
- The load and Grid status monitoring
- Calculating the PV inverter Maximum power output according to the parameters setting, as well as fuel generator's current status and load.
- Records of all the system internal data log
- Supply relevant system data for local and remote monitoring
- Cut off the inverter when emergency

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