

Retrofitting an Existing PV System

Disclaimer

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The SH5K-20 hybrid inverter can be installed with any PV grid-connected inverters. To add other generation on the same phase as the SH5K-20, please follow the instructions in

Figure 1 to **enable Existing system function and set the Existing PV system power rating.**

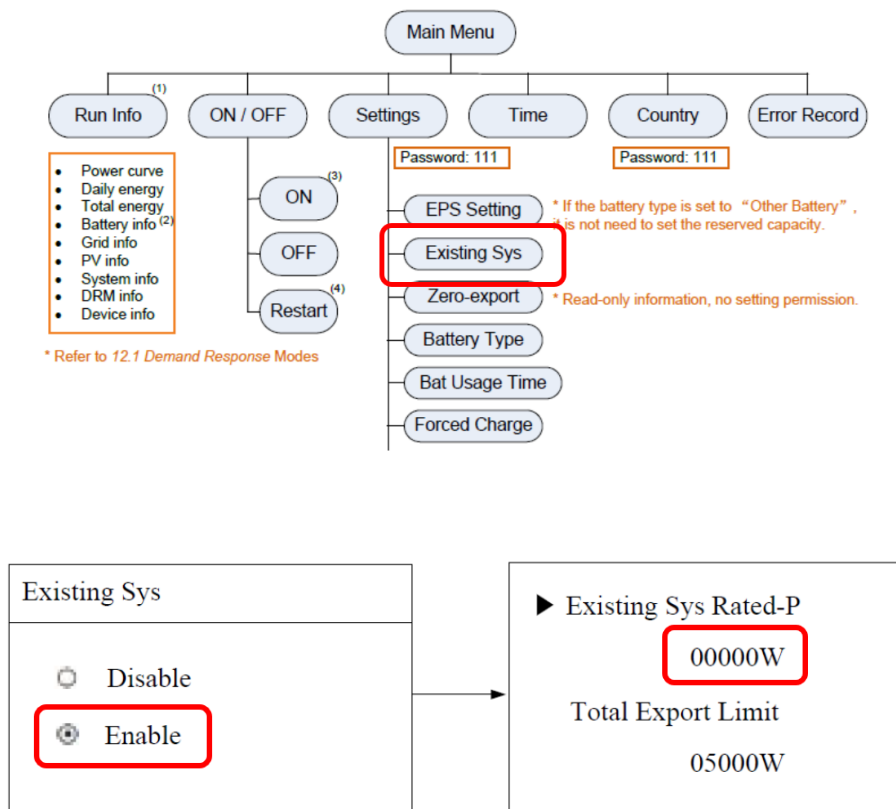


Figure 1: programming other generation

Note: If the Existing Sys Rated-P is more than 5000 W, please set the Total Export Limit first then the Existing Sys Rated-P.

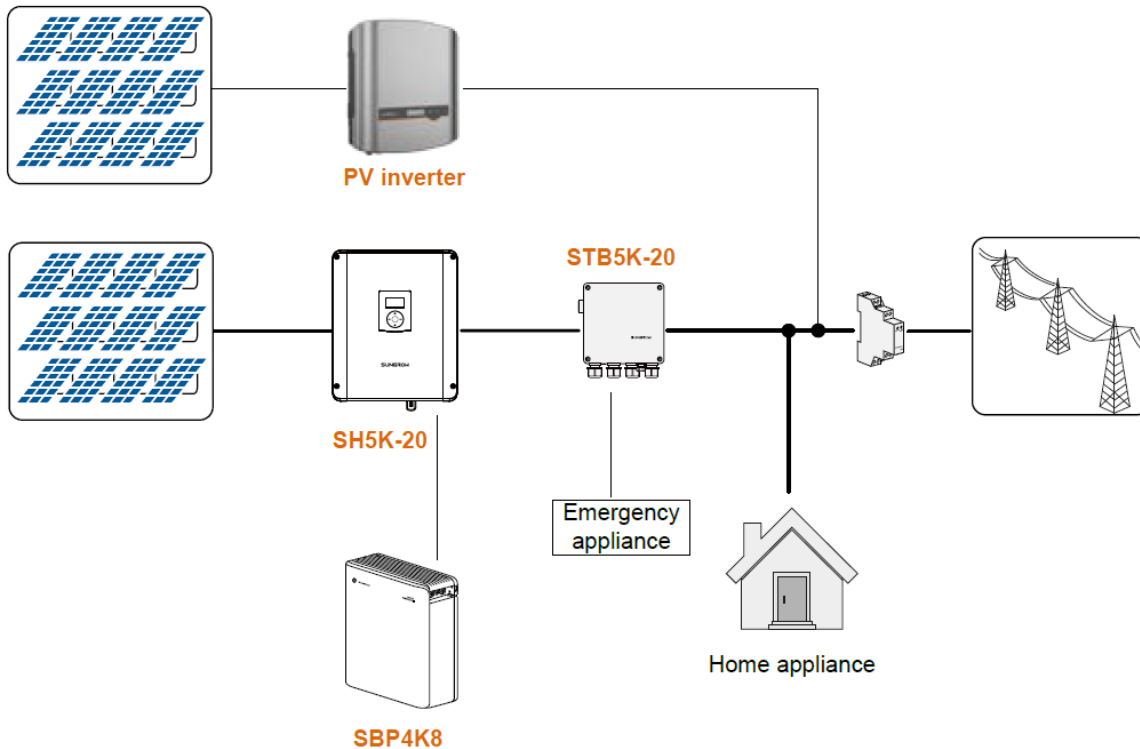


Figure 2: Retrofitting the Existing PV System

One example of installing the SH5K-20 with other generation is when installing the SH5K-20 with an inverter that has already been installed, which is also known as retrofitting the SH5K-20 with an existing system. Retrofitting the SH5K-20 with an existing system is the reason why this functionality was designed for the SH5K-20, and why it is described that way in the user manual and on the LCD.

The power generation from the existing PV inverter will be firstly provided to the loads and then charge the battery, then export to the grid if the battery is fully charged. With the energy management function of the SH5K-20, the self-consumption of the new system will be improved.

Other generation is shown as a negative load on the LCD. When the load power is less than other generation, the SH5K-20 considers the load power as negative (so the power will show as flowing from the house to the inverter). In Figure 3 and Figure 4, the load power with the other inverter is 1 kW to the SH5K-20 and the SH5K-20

charges the battery power by 3 kW, not exporting the power from the other inverter to the grid.

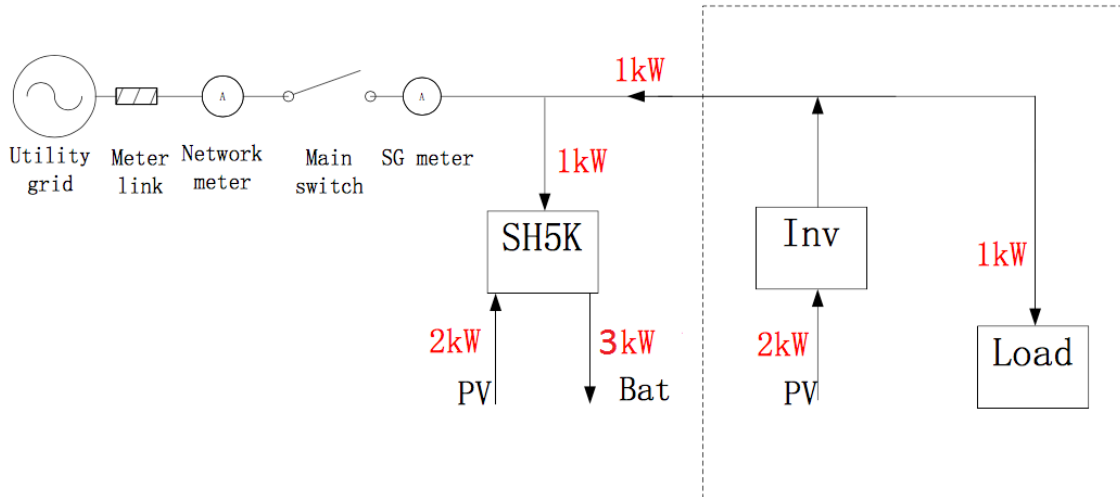


Figure 3: Systematic Diagram

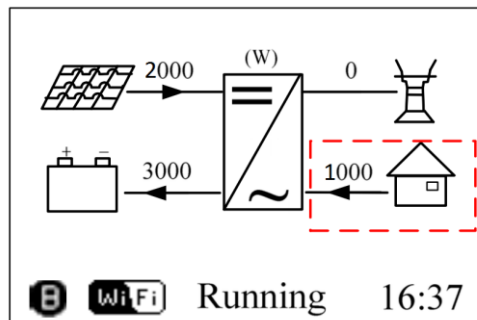


Figure 4: Power Flow of the LCD Screen

Contact Sungrow Service Department on 1800 786 476 for further assistance.