Commissioning of SH5K-20 Hybrid Inverters

Disclaimer

The material in this document has been prepared by Sungrow Australia Group Pty. Ltd. ABN 76 168 258 679 and is intended as a guideline to assist solar installers for troubleshooting. It is not a statement or advice on any of the Electrical or Solar Industry standards or guidelines. Please observe all OH&S regulations when working on Sungrow equipment.

The commissioning phase of the SH5K-20 inverter is straight forward and simple. All settings are done from the front panel, and there is no longer any need to manually enter the battery details – the system will automatically detect a powered-up battery.

On first initialisation, the flowing will appear on the LCD screen.



grid protection parameters (Default DNSP power factor settings will be loaded)

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Grid company Code	Company	
AG	AusGrid, NSW	
EE	Ergon Energy, QLD	
EG	Energex, QLD	
PN	SA Power Networks,SA	
PC	Powercor,VIC	
WP	Western Power,WA	
Default	Company not mentioned above	



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Set battery discharge times (only available if

battery connected)

Clean power for all

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Setting complete	ed !	Enter to save
Initial Settings Earth Fault	3/3	
Exit		Enter to test Earth Fault alarm
Initial Settings	3/3	
Earth Fault		
F LAIL		Enter to save and exit

There are a couple of subsequent settings that may be required depending on the configuration.

If there is an existing PV system on the same phase, it must be enabled in the settings otherwise some errors (error 084) may occur. This also allows battery charging from existing system.



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ESC : Discard

ENT : Save

Enter to save

There may also be a requirement from the customer to reserve a set amount of battery capacity to be available in the event of a blackout. This will quarantine a pre-set amount and will take that amount out of the daily cycle capacity. This is only available after inverter has restarted with battery set.



*Reserve capacity only available in 'Off-Grid' mode and will not be used for day-to-day battery cycling.



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Enter to save and finish.

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Once the commissioning is completed, please follow the below checklists to test the system.

1. The inverter only shows **green light ON** and **status shows Running**; if the existing solar power is sufficient, the system should charge the battery.



- 2. Turn more house load ON to see whether the battery discharges.
- 3. If the EPS box (or backup) is installed, **turn off the grid supply main to test the Off-grid function**; if the function is OK and then turn the grid supply main to ON.
- 4. After completing these testing, the system should run OK.

For any assistance, please contact Sungrow Service Department on 1800 786 476.