NUVO ENERGY AFRICA

GENERATOR INTEGRATION KIT-100

COMMISSIONING SHEET Rev 1.0

1 Site information

Description	Value
1. Commissioning date	
2. Site name	
3. Site address	
4. NE-GIK-100 serial number	
5. Inverter 1 size (kW)	
6. Inverter 2 size (kW)	
7. Inverter 3 size (kW)	
8. Inverter 4 size (kW)	
9. Inverter 5 size (kW)	
10. Inverter 6 size (kW)	
11. Inverter 7 size (kW)	
12. Inverter 8 size (kW)	
13. Inverter 9 size (kW)	
14. Inverter 10 size (kW)	
15. Total PV installed (kWp)	
16. Generator max capacity (kW)	
17. At Incomer – Min kW	
18. At Incomer – Max kW	
19. At Genset – Min kW	
20. At Genset – Max kW	

2 Pre-commissioning sheet

Description	Checked
1. Shielded RS-485 communication cable has been connected in a daisy chain fashion to all inverters as described in the installation procedure.	
2. Termination resistor is installed at the end of the RS-485 line across the A and B terminals.	
3. Generator detect pins have voltage only when the generator is on. (Measure between terminal 3 and 4 for 220-240VAC when the generator is on and 0VAC when the generator is off).	
4. Voltage connections on terminals 5-8 have the correct phase rotation and voltage measurements and measure the correct voltage while grid is connected, or generator is running.	
5. CT's are connected in the correct phase order, current flow direction as well as S1 and S2 wiring is correct.	
6. All inverters have been installed and commissioned to manufacturer specifications.	

3 Commissioning sheet

Description	Checked
1. NE-GIK-100 enclosure's IP65 rating has not been compromised by the installation.	
2. All wires are installed in accordance wiring standards of the applicable country.	
3. The installation is earthed in accordance with the applicable wiring standards.	
4. Communication cables are of the correct standard and installed correctly, as suggested by this manual.	
5. RS-485 120Ω termination resistor is correctly installed at the end of the RS-485 communication bus.	
6. Energy meter readings confirmed to be accurate by measuring and comparing with the meter values.	
7. Inverter sizes correctly set in the software configuration.	
8. Control setpoints correctly set in the software configuration.	
9. Wattmon has communication to all inverters (Green icon in Wattmon dashboard)	
10. Control operation in grid mode working correctly	
11. Control operation in generator mode working correctly with generator supplying the load.	
12. Internet connection tested.	