|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** |  | **Tag Number** |  |
| **Location** |  | **Sub-System Number** |  |
| **Data Sheet** |  | **System Number** |  |
| **Equipment Description** |  | | |
| **System Description** |  | | |
| **Serial Number** |  | **Type** |  |
| **Reference** |  | **Date** |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No** | **Details** | | | | **Yes** | | **No** | **N/A** |
|  | Check equipment details against drawings and data sheets to ensure they are correct. | | | |  | |  |  |
|  | Perform point-to-point verification & earth loop resistance testing. (Max value = 1.0 Ω) | | | |  | |  |  |
|  | Check that the cables are complete, tight, and have the correct phasing/polarity. | | | |  | |  |  |
|  | Verify that the inverter and charger cubicles are dry, clean, and free of moisture intrusion. | | | |  | |  |  |
|  | Verify the anti-condensation heater circuits' insulation resistance.  (Min value = 1MΩ) | | | |  | |  |  |
|  | Inspect the feeder & charger power circuits' insulating resistance.  (Min value = 10MΩ) | | | |  | |  |  |
|  | Check that the relay settings, charger, inverter MCB, and fuse ratings are accurate. | | | |  | |  |  |
|  | Make sure the batteries are positioned, recognized, and polarized according to the vendor's configuration. | | | |  | |  |  |
|  | Check that the battery connections are secure, the shrouds are installed, and the grease is acceptable. | | | |  | |  |  |
|  | Check that the labelling and cubicle number for the switchboard feeder are correct. | | | |  | |  |  |
|  | Check that the MCB and fuse ratings at the feeder are appropriate for the purpose of use. | | | |  | |  |  |
|  | Energize the anti-condensation heater circuits and make sure they are operating satisfactorily. | | | |  | |  |  |
|  | Check the controls and ICS interfaces, and energize the feeder cubicle. | | | |  | |  |  |
|  | Charger cubicles should be energized, and voltage and phase rotation should be checked. | | | |  | |  |  |
|  | At charger panels, perform a live earth loop impedance test.  (Max value = 1.0Ω) | | | |  | |  |  |
|  | Check the charger system's functionality in compliance with the manufacturer's guidelines. | | | |  | |  |  |
|  | Check that the alarms and trips are set and working properly. | | | |  | |  |  |
|  | Check for appropriate charging parameters. | | | |  | |  |  |
|  | Check for appropriate discharge parameters. (Record Test Results) | | | |  | |  |  |
|  | Check that the UPS inverter circuits are operating appropriately. | | | |  | |  |  |
|  | If applicable, compile a red line drawing. | | | |  | |  |  |
|  | **Commissioning Remarks**  **1).**  **2).**  **3).** | | | |  | |  |  |
|  | | **Commissioned By** | **Test Approved By** | **System Incharge** | | **Accepted By** | | |
| **Name** | |  |  |  | |  | | |
| **Designation** | |  |  |  | |  | | |
| **Signature** | |  |  |  | |  | | |
| **Date** | |  |  |  | |  | | |