**BENGi 12V/24V LED Strip Production Process**

1. SMT
2. Rear welding
3. Wire bonding
   - IP20 Non-waterproof
   - IP65 Silicon glue
   - IP66 Silicon sleeved
   - IP68 Silicon encapsulated
4. Aging Test
5. Dropping glue
6. Tube-inserting
7. Tube-inserting
8. Packing
9. Aging Test
10. Plug end cap
11. Encapsulating
12. Aging Test
13. Packing
SMT

1. Heat leds: Bake the leds in the oven.
2. Brush solder paste: Brush the solder paste on the PCB plate by using steel mesh.
3. SMT: Weld the leds and resistance accordingly by using the SMT machine.
4. Reflow soldering: Get the PCBA into the reflow soldering machine.
5. Testing: Test the semi-finished products.
**Rear welding**

1. **Welding jointed board:** Weld the 0.5M/pcs into customized length, such as 1M, 5M.
2. **Wire bonding:** Weld the wires to the PCB.
Dropping glue (IP65)

1. Place the bare board strips: Place the bare board strips on the grillage.
2. Mix AB glue: Mix the AB glue and do it with vacuuming process.
3. Drop glue: Drop the mixed glue to the bare board strips evenly.
4. Take away the strips: Take away the strips from the grillage after the glue is dry.
5. Stick 3M tape: Stick 3M tape at the back of the tube.
**Tube-inserting (IP66)**

1. Tube-cutting: Cut the tube into customized length.
2. Tube-inserting: Insert the bare board strips into the tube.
3. End cap plugging: Plug the tube with caps at both ends with glue.
4. Stick 3M tape: Stick 3M tape at the back of the tube.
**Silicon encapsulated (IP68)**

1. **Tube-cutting:** Cut the tube into customized length.
2. **Tube-inserting:** Insert the bare board strips into the tube.
3. **End cap plugging:** Plug the tube with caps at both ends with glue.
4. **Silicon encapsulated:** Vacuum the tube at both ends and pour the glue into the middle of the tube.
Aging test

1. Performance testing: Check the LED strip appearance, and do the optical/electrical performance testing.
2. Aging test: Take the strips to the aging region for 24 hours of aging.
**Packing**

1. **Bagging:** Put the LED strip into the reel, and then put into the anti static bag.
2. **Labeling:** Stick the label to the reel and bag.
3. **Packing:** Place the bags in the carton and then packed.