VynEL™ CUSTOM DIY LIGHT-UP GARMENT

INSTRUCTION GUIDE

VynEL™ panels add light to nearly any fabric or textile. They heat bond easily using a standard iron or heat press, and can also be sewn into garments with standard equipment. This guide covers the heat bonding method for VynEL™ Flow and HD panels. A heat press makes it easier, but a standard household iron works for most projects.

WHAT YOU WILL NEED

Panel Components

VynEL™ panel (Flow or HD with adhesive backing), graphic overlay (if applicable), connection area leads, inverter or battery pack.

For Heat Bonding

Standard iron (dry, cotton setting) or heat press. Heat bonding material or heat transfer vinyl cut to panel shape. Tweezers for removing cutout material.

For the Garment

The garment or fabric you want to light up. A flat surface with all wrinkles removed. Paper for tracing panel shape if cutting adhesive by hand.

Tools

Plotter or vinyl cutter (recommended) or Exacto knife for cutting heat bond material. Small scissors for trim work.

HEAT BONDING METHOD: STEP BY STEP

1 **Select Your Garment**
Find a garment or fabric you want to add light to. A jacket, sweatshirt, or bag works well for a first project. Ensure the surface is clean, flat, and free of wrinkles.

2 **Prepare the Heat Bond Material**
Cut heat bonding or heat transfer vinyl material to the shape of your panel. A plotter or vinyl cutter makes this precise. An Exacto knife and paper tracing works well if you do not have a cutter.

3 **Cut Away the Panel Material**
Remove the material you want to illuminate. Small tweezers are helpful for removing cut pieces cleanly. Take your time here for a clean result.

4 **Position the Panel**
Lay the VynEL™ panel and graphic overlay over the area you plan to bond to. Ensure you have a flat surface with all wrinkles removed and the panel is positioned exactly where you want it before any heat is applied.

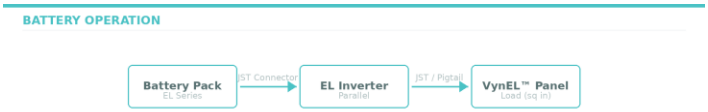
5 **Apply Heat**
For a standard iron: warm to dry, cotton setting. Apply approximately 30 lbs of pressure and press evenly across the surface for 15-25 seconds. Keep the iron moving in smooth, overlapping passes.For a heat press: place the garment in the press with the lighting element facing away from the heating element. Use 30-40 lbs at 300°F for 15-20 seconds.

6 **Cool and Peel**
Allow the garment to cool for 1-2 minutes. For best results, lay it flat in a freezer for 1-2 minutes before peeling. Once cool, gently peel off the top coating. Then plug in the battery pack and power on.

Storing Your VynEL™ Garment: Maintain a minimum bending radius of 5mm when storing. Avoid tightly coiling or folding the lit area. Store flat on a hanger, or lay the garment flat. Tight bends cause dark spots and shorts at the EL layer.

WIRING DIAGRAM

BATTERY OPERATION



FAQ

What is VynEL™?

VynEL™ derives from EL panels but adds flexibility, heat bondability, and wash durability. It is ideal for safety and entertainment applications.

Does VynEL™ need an inverter?

Yes. VynEL™ is an EL product and requires a high-frequency inverter. It is compatible with Parallel EL Inverters from Ellumiglow.

Can VynEL™ panels be cut?

Yes, but ordering custom shapes from Ellumiglow produces better long-term results than field cutting. Contact us for custom shapes and sizes.

Can VynEL™ panels be customized?

Yes. Custom shapes, sizes, colors, and graphic overlays are all available. Visit ellumiglow.com or contact info@ellumiglow.com for custom inquiries.

LEARN MORE

Full guides, wiring diagrams, integration tips, and product specs: ellumiglow.com/pages/el-guide