

## 50 Watt Off-Grid Expansion Kit (GS-50-EXP) Quick Connect Guide

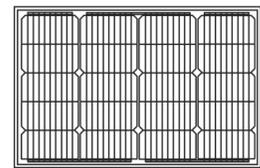


**IMPORTANT:** Please read GS-STAR-50W connection guide (included with product) before assembling kit.

For additional information about Grape Solar products:  
email [Support@GrapeSolar.com](mailto:Support@GrapeSolar.com), or  
call **1-877-264-1014** for live telephone support.

**1** Check your order to make sure that all parts are included:

- ❶ GS-STAR-50W Solar Panel
- ❷ MC4 Branch Connector Set



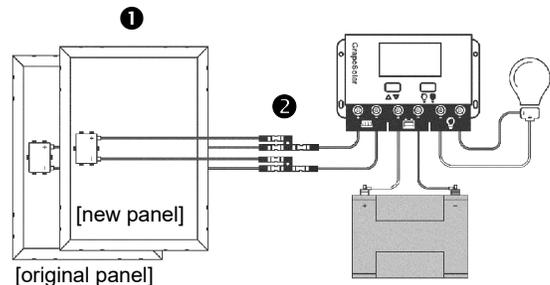
❶

❷

[diagrams not to scale]

**2** Mount the additional 50-watt solar panel ❶ so that it is facing due South at approximately the same angle as your latitude. The ideal area has full sun and no shading. If the following connections are made during daylight, cover all panels with cardboard, cloth, or a similar opaque material so that the panels do not output power.

**3** Disconnect the MC4 connections of the original panel, and insert Branch Connectors ❷ into the resulting gaps to form a closed circuit with the new solar panel.



### DISCLAIMER:

Installations of this kit could be subject to national and local building and electrical codes. Installers should have adequate knowledge of national and local code to ensure the installation passes inspection by the local electric authority.

Proper fuses or breakers should be used to comply with all local and national codes. Contact Grape Solar for specific recommendations.

All batteries used for this system should be identical. Do not mix battery types or sizes. Do not mix old batteries with new batteries. Performance and charging anomalies can occur if types, sizes, or age of batteries are not identical.

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