



# HES-RV

## Installation Manual

### YOU ARE 4 EASY STEPS FROM SOLAR ENERGY!

1. Connect the Power Cable to your HES Solar Panel
2. Fix your HES Solar Panel to your RV's roof
3. Run the Power Cable down the fridge vent to your Charge Control Centre
4. Connect the Power Cable from your Charge Controller to your RV battery



## HESPV

### HESPV

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Barrie ON, L4N 3V8  
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### PARTS CHECKLIST

01. HES Solar Panel
02. Charge Control Centre
03. Remote (Only with MPPT/Duo option)
04. MC Cables
05. UV-10 cable
06. Push-in wire connectors
07. Red positive battery wire & fuse holder
08. Fuse
09. Black negative battery wire w/ ring terminal
10. HES Panel mounting hardware

### TOOLS REQUIRED

01. Wire stripper
02. Screw driver (#2 robertson)
03. Screw driver (#2 phillips)
04. Screw driver (1/8" flat head)
05. Utility knife
06. Nut driver, 7/16"
07. Wrench, 7/16"
08. Drill (for well nuts)
09. Drill bit 3/8"

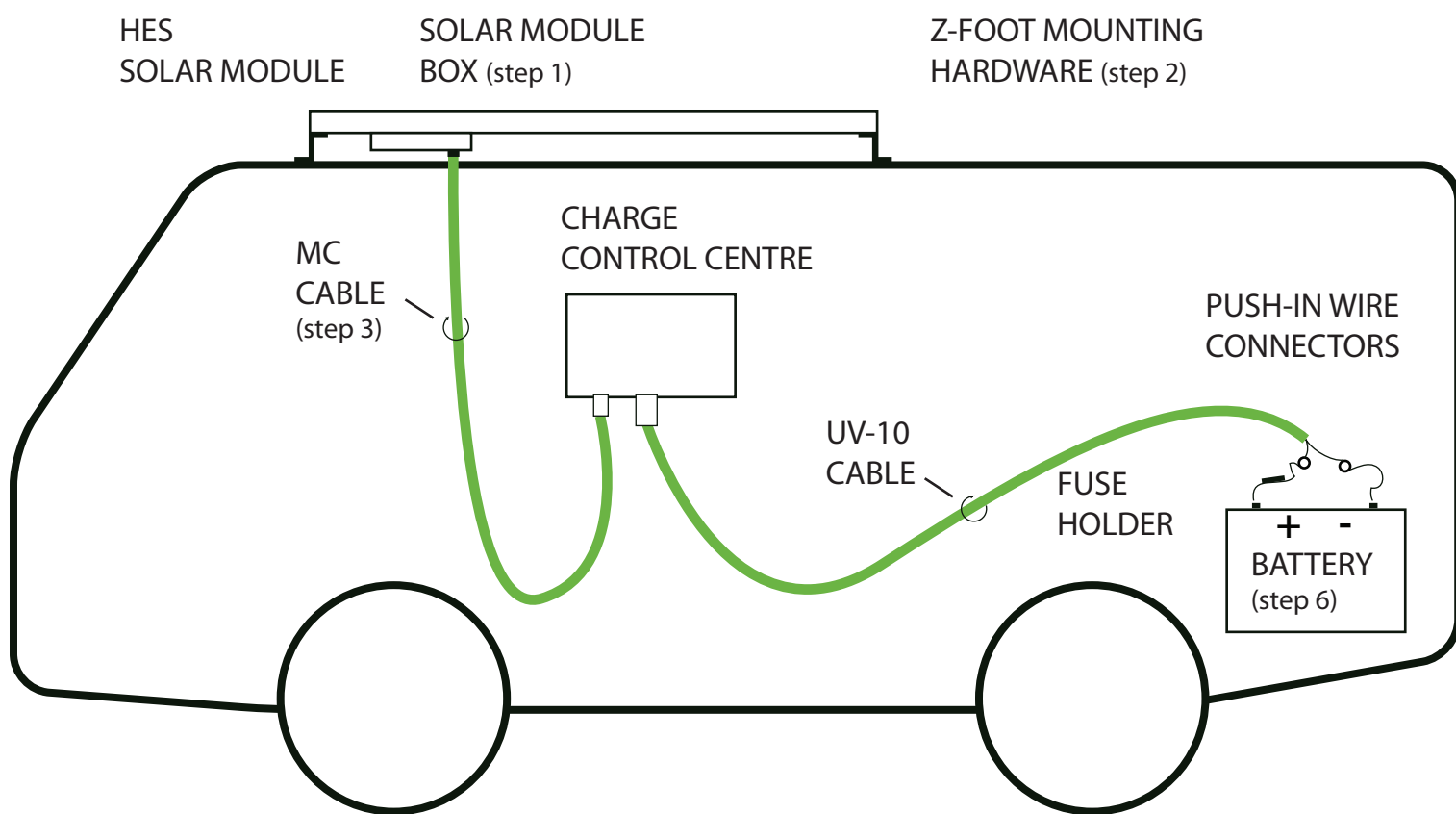




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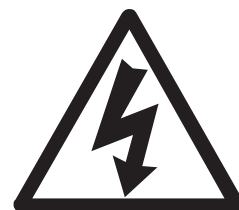
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### INSTALLATION OVERVIEW



#### Caution!

Wear protective eyewear and appropriate clothing during installation. Follow all applicable safety standards and regulations. Disconnect all power sources before attempting installation. Use extreme caution when working with electricity and when handling and working around batteries. Use properly insulated tools only. When charging, batteries may produce explosive hydrogen gas, ensure adequate ventilation is available. Photovoltaic modules generate DC electricity when exposed to sunlight or other light sources, cover modules from light when making connections.





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### INSTALLATION STEPS



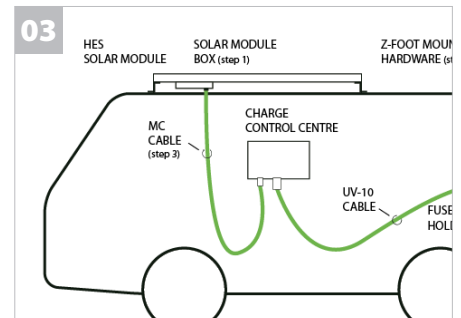
#### Wire Solar Electrical.

With the panel out of direct sunlight, attach the MC leads to the male and female ends of the solar panel. Route the MC cable to the charge controller location.



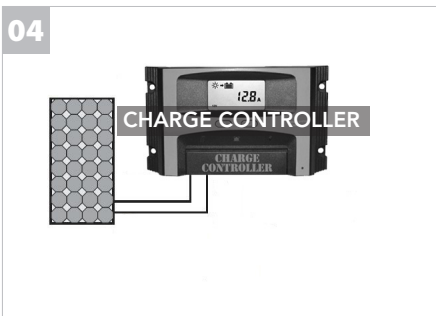
#### Mount Solar Panel.

Drill 3/8" penetrations in RV roof. Insert Well-Nuts as your roof anchors, attach Z-Feet to Well-nut anchor and Panel frame.



#### UV Cable Homerun.

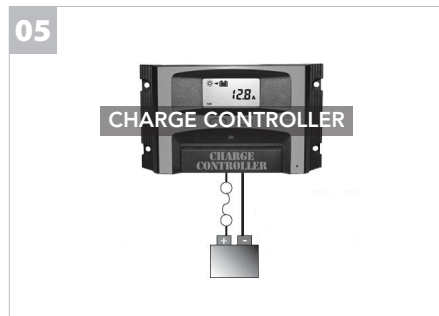
Secure wiring through the fridge vent to your charge controller.



#### Wire PV Input.

Run your two lengths of MC cable to your charge controller, check polarity, then wire your Solar PV to the PV+ and PV- inputs on your charge controller.

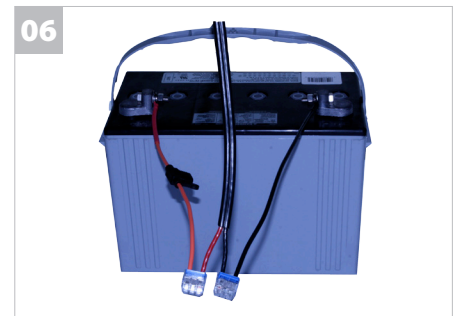
*Review the Charge Controller Manual before connecting.*



#### Wire Battery Output.

Using spare UV cable, Check Polarity, then wire your UV-10 wire from the Battery+ and Battery- outputs on your charge controller, ending your wiring near your battery.

*Review the Charge Controller Manual before connecting.*



#### Connect Charge Controller to Battery.

After checking polarity use the push-in wire connectors to attach the UV-10 wiring to the supplied battery negative and fused battery positive wires.

*Review the Battery Manual before connecting.*