

ARMORCELL Portable Solar

QUICK START

SK38H-ACV · 38W

SK150H-ACV · 150W

SK275H-ACV · 275W

READ FIRST The panel makes power in any light — keep it rolled or face-down until everything else is connected. **Battery first, panel last.** Never connect a panel straight to a battery; it must go through the MPPT controller. Keep the 25A fuse in circuit, and make no battery connections where fuel vapor may be present.

Set up in five steps

1 Site the controller, connect the battery

Dry, ventilated, 4 in clear above and below. Victron SAE adapter cable into the **BATT** terminals, then a 1 m battery cable — clips or ring terminals — onto the battery. Positive first, then negative.

2 Check that the controller powers up

It should report battery voltage — typically 12.0–13.0V — before any solar is connected. Nothing at all? Check the 25A fuse and the polarity.

3 Run the 20 ft extension out to the panel

Victron MC4 adapter cable into the **PV** terminals, extension cable out to where the panel will sit. Keep it clear of walkways and hot surfaces.

4 Unroll, aim, and lash the panel down

Face it square to the sun, clear of shadows. Clip the bungee cords into the grommets and take up the slack — two cords in normal wind, all four grommets when it is gusty.

5 Connect the panel last

Click its MC4 connectors onto the extension cable until they latch. Charging starts straight away — the controller's blue or yellow LED lights and the app shows PV watts.

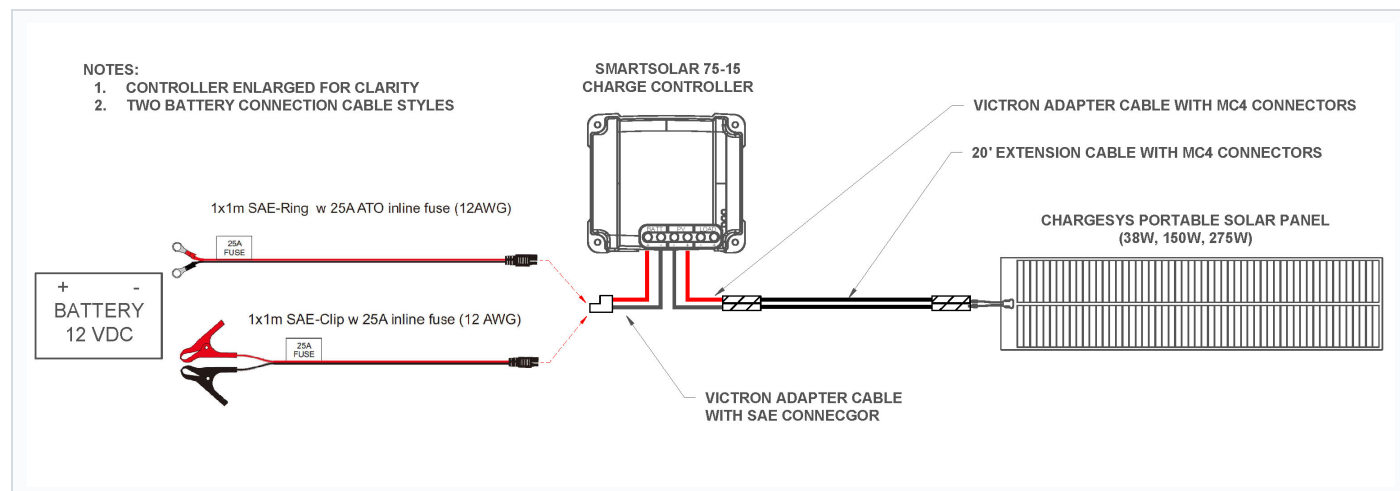
IN THE BAG

Panel · MPPT controller · 20 ft MC4 extension · Victron MC4 and SAE adapter cables · two 1 m battery cables (clips, ring terminals; 12 AWG, 25A fused) · two bungee cords · two velcro cinch straps · carry bag

SET THE BATTERY TYPE

In VictronConnect: default PIN 000000, then **Settings** → **Battery**. Flooded/AGM 14.4V · Gel 14.2V · LiFePO₄ 14.2V absorption.

Wiring diagram



Controller LEDs

Green solid	Fully charged (float)
Yellow solid	Absorption
Blue solid	Bulk charging
Blue slow blink	Not charging — too little sun

Victron SmartSolar; other controllers differ — see their manual.

Pack it away

1. Unplug the panel first, then release the cords.
2. Wipe it dry — never bag a wet panel.
3. Roll it **cells out**, no tighter than 10 in across.
4. Cinch the two velcro straps, slide the roll into the bag.
5. Cables and controller go in the accessory bag alongside.

If something looks wrong

Symptom	Try this
Controller dead	Check the 25A inline fuse, re-seat the clips on clean metal, confirm red to + and black to -.
No solar input	Push each MC4 pair until it clicks, move the panel into full sun, confirm PV is in the PV terminals.
Output low	Clear shadows, re-aim square to the sun, rinse the face. Expect less early, late, and under cloud.
Panel shifts in wind	Use all four grommets, take up the adjusters, lower the tilt. Stow it if conditions build.

In Motion

Lashed at every grommet, deployed up to 30 mph. Above that, stow it.

Water

Panel and MC4 cables IP68.
Controller and battery cables IP43 — keep dry.

Handling

Roll it, never fold it. Walk on it only when evenly supported.

SUPPORT

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