

A. Mounting the Enclosure

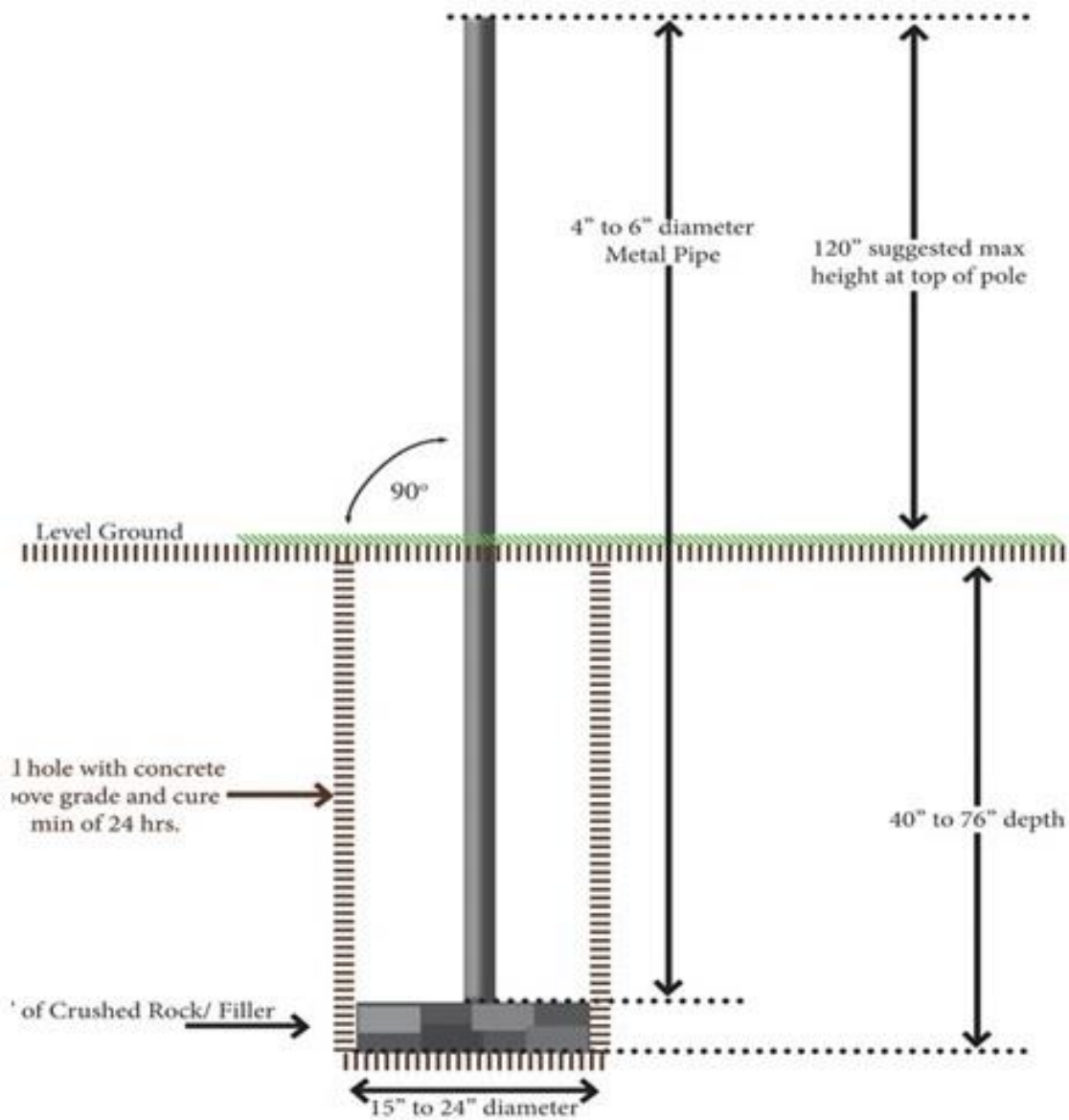
The VPS3 Enclosure has an Integrated Mounting System that can easily be mounted to a wall, wooden utility pole, or a 2" to 4" Schedule 40 Pole

Use lag bolts to mount to a wall or wooden utility pole

Use U-bolts to mount to a 2" – 4" Schedule 40 Pole
(See diagram below for Installing your Pole)



Back of Enclosure



B. Mounting the Solar Panel(s)

The Vorp Energy PV Pole Mount Kits can easily be mounted to a wall or wooden utility pole using lag bolts, or to a 2" to 4" Schedule 40 Pole using hose clamps (included)

SPM27	SPM27A	SPM55X
		

Follow the Quick Install instructions provided with the PV Pole Mount Kit

To determine the appropriate tilt angle visit: <http://www.vorpenergy.com/support/>

C. Wiring your System

Check to ensure that all breakers are in the "off" position before connecting any wires to the terminal blocks of the Power Assembly



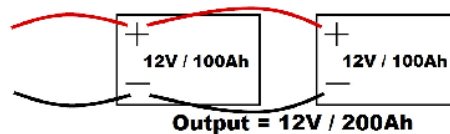
Breaker Positions

Green = OFF
Red = ON

If using more than one Battery see diagram below

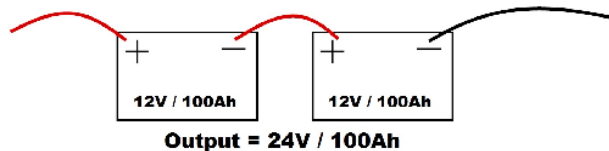
Connect in Parallel for 12V output

Connecting in **Parallel** - Same Voltage but Amps (Ah) Double



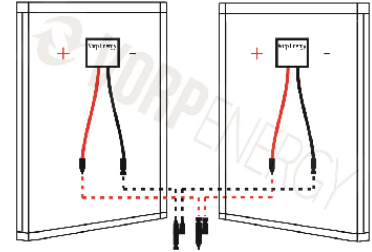
Connect in Series for 24V output

Connecting in **Series** - Doubles Voltage but Amps (Ah) stay the same



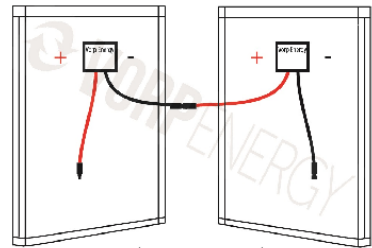
If your Solar Kit includes more than one Solar Panel, see diagram below

Connect in **Parallel** to keep PV Voltage the same and double the Amperage
(Requires a Parallel Connector)



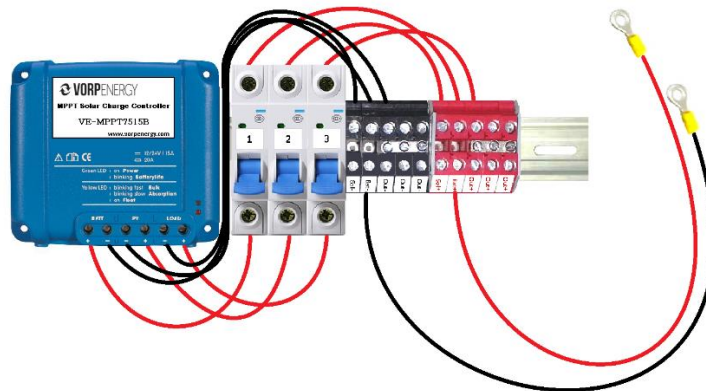
Parallel Connection

Connect in **Series** to keep PV Amperage the same and double the Voltage
(No additional equipment required)



Series Connection

Power Assembly



**!!! Breakers must turn ON in sequence (1 – 2 – 3)
And OFF in sequence (3 – 2 – 1)
Failure to follow this sequence may cause damage to
your electronics!**

**Flip Up to Turn ON = RED
Flip Down to Turn OFF = GREEN**

**Negative Terminal Blocks
(BLACK)**

**Sol - = Solar Panel
Bat - = Battery Cable
Out - = Output to Load**

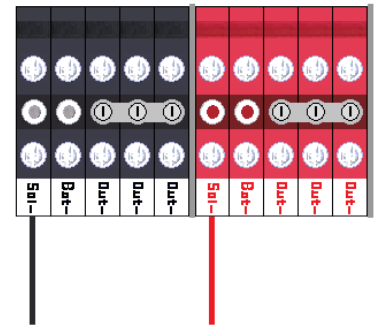
**Positive Terminal Blocks
(RED)**

**Sol + = Solar Panel
Bat + = Battery Cable
Out + = Output to Load**

Connect the provided Solar Panel Cables to the Solar Panel(s).
The MC4 Connectors will ensure that the proper polarity is observed.

Using the provided Cable Glands, run the Solar Panel Cables up through the holes in the bottom of the Enclosure

Connect the positive (RED) Solar Panel wire into the Red Terminal Block labeled SOL +

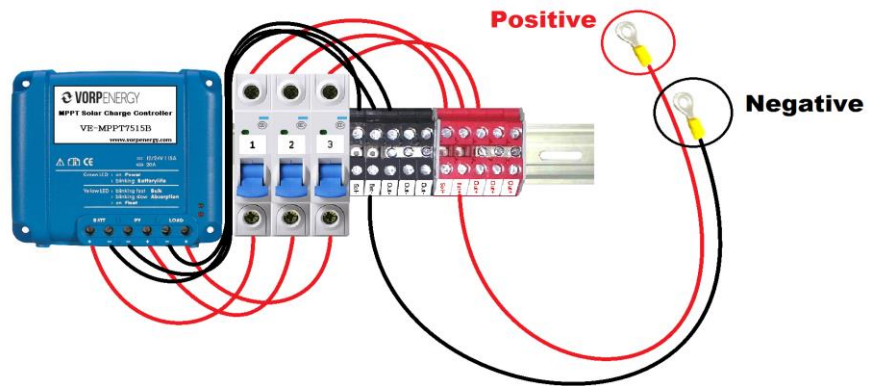


Connect the negative (BLACK) Solar Panel wire into the Black Terminal Block labeled SOL -

Tighten using a small standard screw driver

Connect the provided Battery Cables to the Battery Terminals

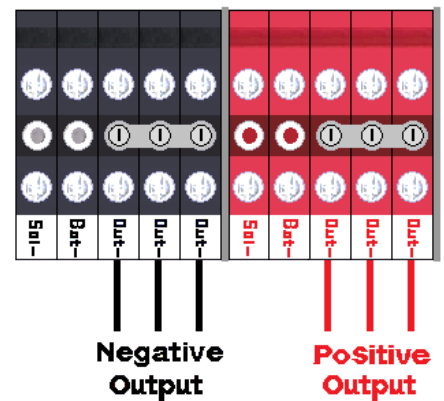
RED = Positive
Black = Negative



Load

Connect the positive wire of the equipment to be powered into one of the three available load outputs

RED = Positive
Black = Negative



Contact VORP Energy for additional support