

## 9. Solar Panel Install

1. Sol-Ark 8K has 2 separate pairs of solar panel inputs.

### (Dual MPPT)

2. Use the chart to the right to determine how many strings of panels and how many panels per string can be installed. This chart is only a guide, other panel types and configurations can be compatible if within system specifications.

3. Max PV input:

11,000W(+/- 5%) per system (6,000W per MPPT) PV = 500Voc Max

Note: Damage will occur if PV Voc > 550V.

4. Connect the strings of solar panels to the system as shown on pages 9/10.

5. Each pair of strings, PV1A/B and PV2A/B, must be the same voltage if both are used (see Fig. E).

6. Panel frame grounding can be done to any ground in the home via 12AWG wire. Mounts usually bond frames together, so only 1 ground wire is needed.

**Note: Max Panels in Series:**

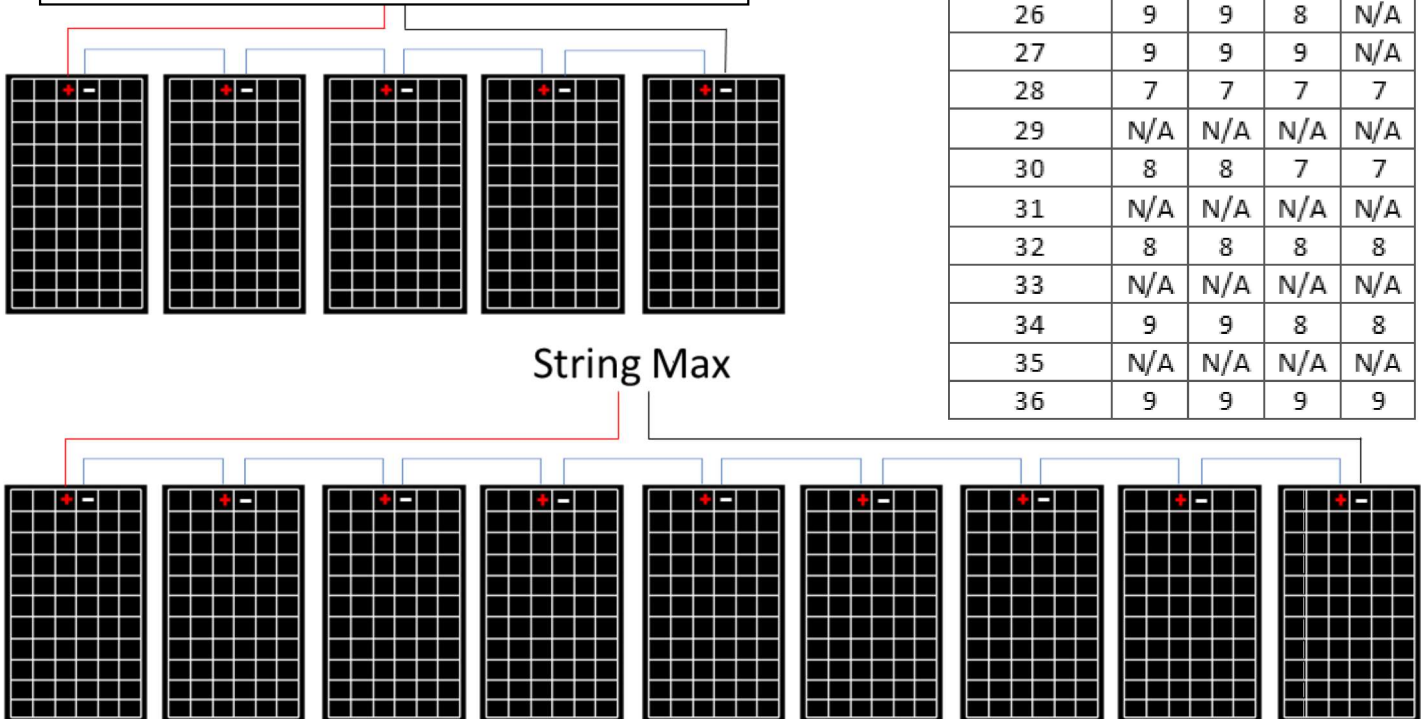
**60 Cell: 10**

**72 Cell: 9**

**96 Cell: 5**



60-72 Cell 280W-315W panels assumed for this guide. Please check your panel datasheet to confirm Voc rating!!



**Fig. E: Suggested Solar Panel String Guide**

**(60 or 72 cell Panels, 305W/Panel or less)**

Total Panels	PV1A	PV1B	PV2A	PV2B
1	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A
5	5	N/A	N/A	N/A
6	6	N/A	N/A	N/A
7	7	N/A	N/A	N/A
8	8	N/A	N/A	N/A
9	9	N/A	N/A	N/A
10	5	5	N/A	N/A
11	6	N/A	5	N/A
12	6	6	N/A	N/A
13	7	N/A	6	N/A
14	7	7	N/A	N/A
15	8	N/A	7	N/A
16	8	8	N/A	N/A
17	9	N/A	8	N/A
18	9	9	N/A	N/A
19	6	6	7	N/A
20	7	7	6	N/A
21	7	7	7	N/A
22	7	7	8	N/A
23	8	8	7	N/A
24	8	8	8	N/A
25	8	8	9	N/A
26	9	9	8	N/A
27	9	9	9	N/A
28	7	7	7	7
29	N/A	N/A	N/A	N/A
30	8	8	7	7
31	N/A	N/A	N/A	N/A
32	8	8	8	8
33	N/A	N/A	N/A	N/A
34	9	9	8	8
35	N/A	N/A	N/A	N/A
36	9	9	9	9