

# Panels for MPPT Specifications

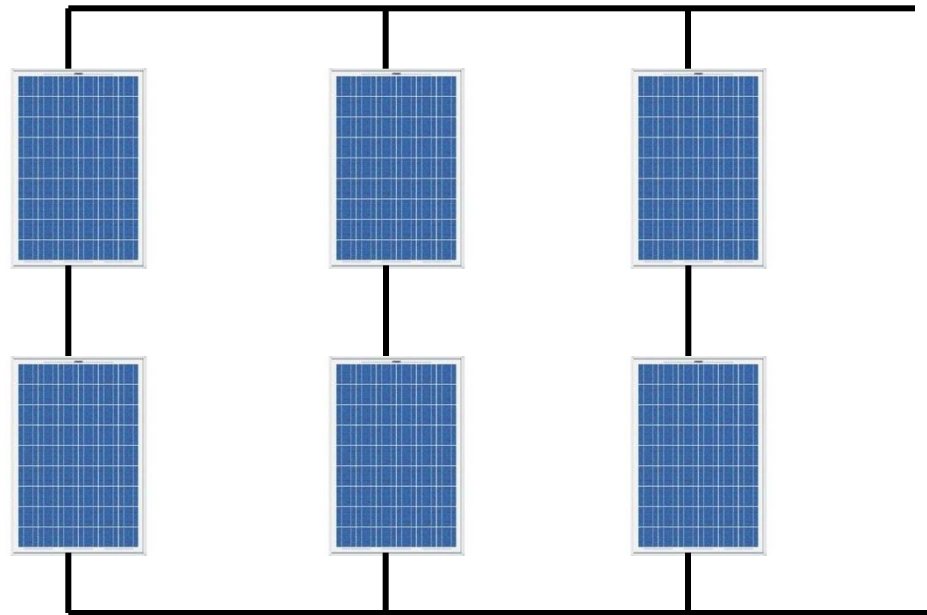


# Electrical

- Input Voltage from solar panels:  
30VDC to 66VDC
- Input Current from solar panels:  
0A to 25A
- Output Voltage from MPPT to the boiler:  
0VDC to 160VDC
- Output power: 1KW (software limited)
- **Panels must have Protection Diodes inside**

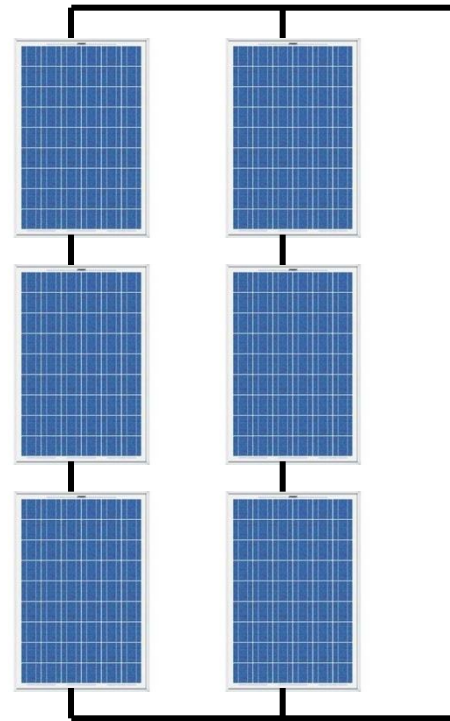
# Solar panels option 1

- Array of 6 panels: 3 pairs connected in parallel
- For example: Suntech STP200-18/Ud
- Each panel: Open circuit voltage 29 – 34V  
Optimum voltage 24 – 27V  
Power 180 – 200W  
Total Voltage  $V_{oc}$  – 66V  
Total power – 1200W



# Solar panels option 2

- Array of 6 panels: 2 strings of 3 connected in parallel
- For example:
- Each panel: Open circuit voltage 18 – 22V  
Optimum voltage  
Power 180 – 200W  
Total Voltage  $V_{oc}$  – 66V  
Total power – 1200W



# Solar panels option 3

- Array of 3 panels: connected in parallel
- For example:
- Each panel: Open circuit voltage 55 – 67V  
Optimum voltage 50 – 60V  
Power 180 – 350W  
Total Voltage  $V_{oc}$  – 55-67V  
Total power – 540 - 1050W

