



MPPTt (maximum power point tracking - thermal) Solar Power Technology

NORMAL MODE EXAMPLE – BAD WEATHER

Description: MPPTt is the world's first high performance technology for solar thermal systems. It is a patented science and controls technology developed over the last 8 years.

Operation: This document outlines an example of how MPPTt works in normal mode.

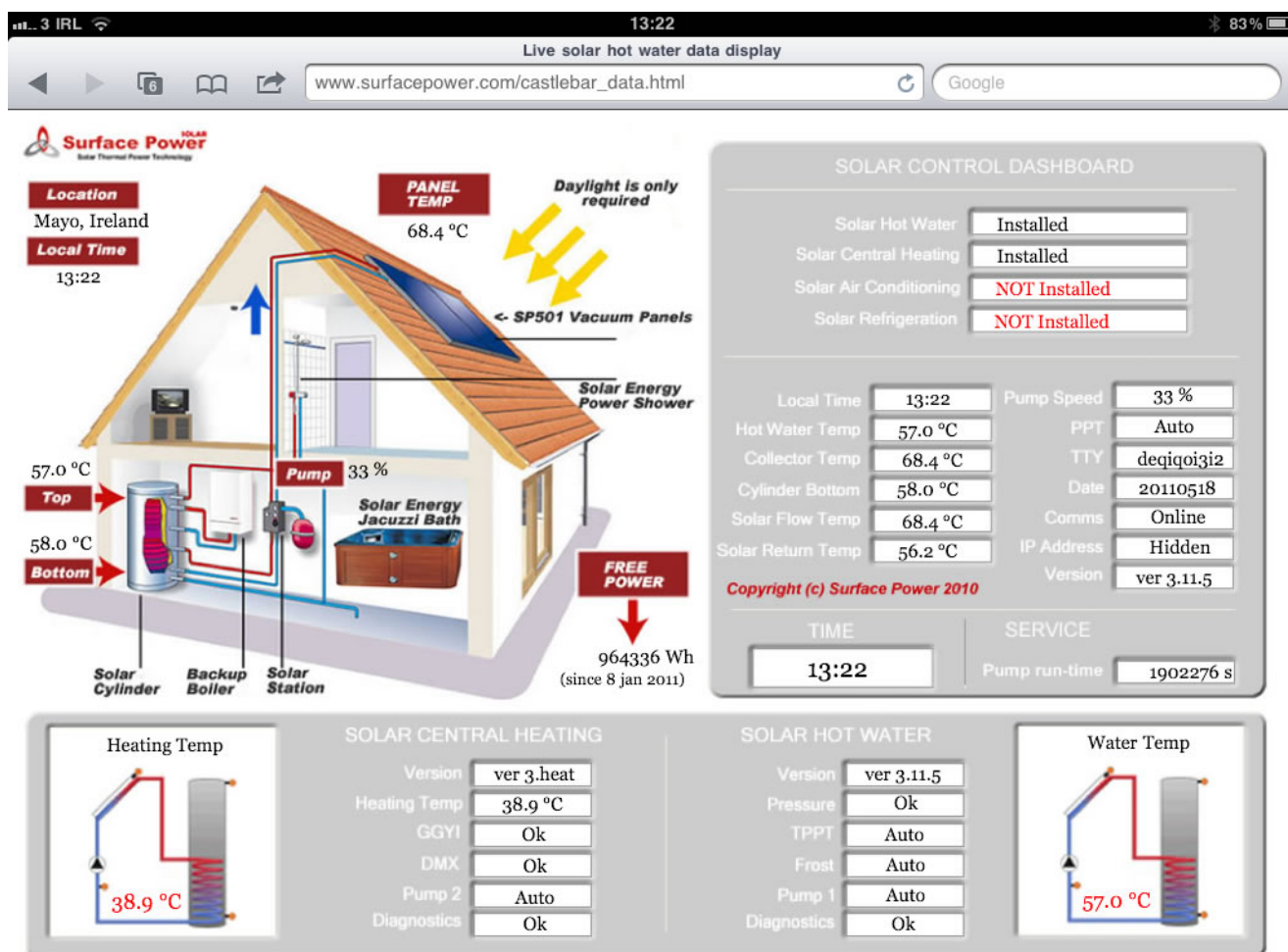
This is a weather screenshot of a Surface power solar system on May 18th. It was heavy cloud with rain and occasional thinning of cloud but no breaks.



The following is the screen shot of the system at the location.

- The system is at HIGH temperature, this is MPPTt at work.
- The system has a **Delta T of 10.4C** in poor weather, this is MPPTt at work. *(This 10.4C is at the low end of MPPTt but the weather is poor and it is significantly higher than any differential temperature controller solar hot water system would achieve. It is more than likely that a system running DTC would be OFF in this type of weather.)*
- The system protects the energy in the transfer circuit by maximising power transfer even though the weather is poor, this is MPPTt at work.

MPPTt still delivers maximum kWhrs with high temperatures in poor weather. This is how MPPTt works. It is not a batch ON/OFF control method like DTC (Differential Temperature Control)



Contact support for any assistance on support@surfacepower.com