# Smart Load (Conditional Load)













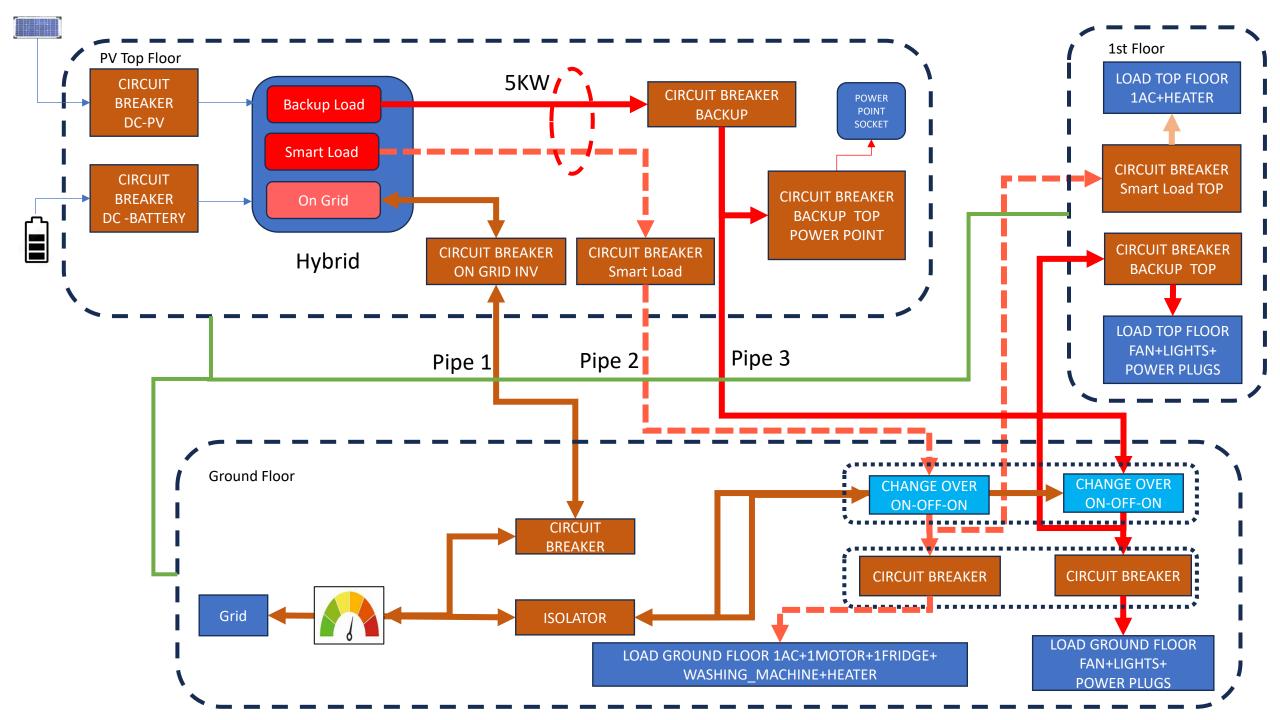
# Backup Load (Emergency Load)

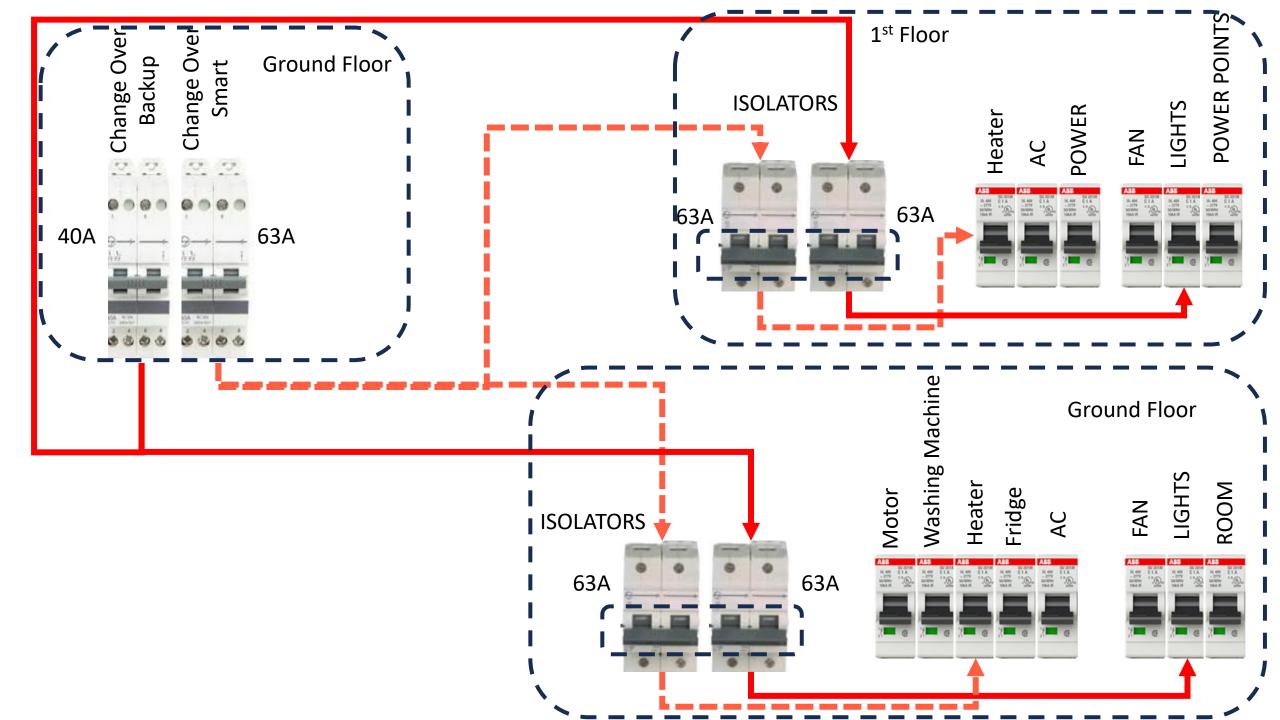


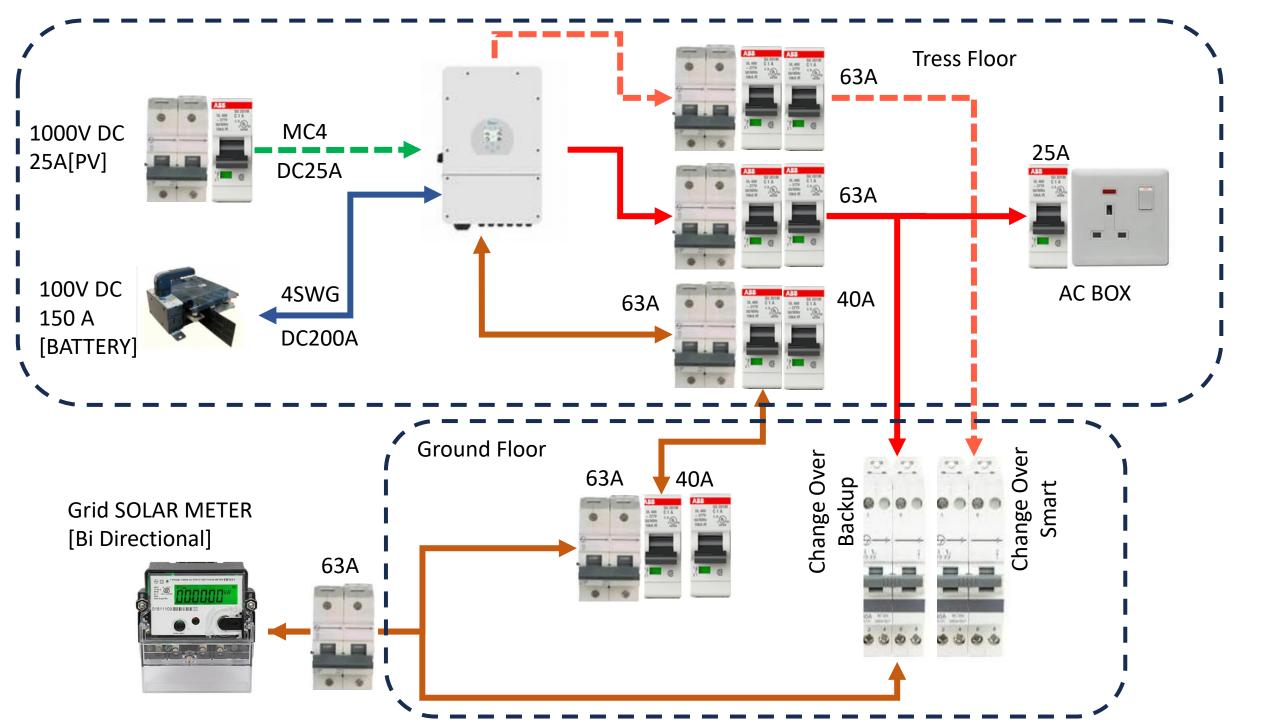




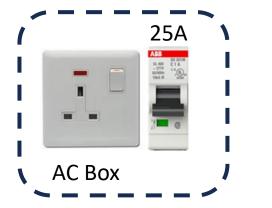








## **Tress Floor**





63A 63A 63A 63A 63A 63A 63A

SUN-5K-SG04LP1-EU

MCB Box with Cover 12 (AC)







DC Isolator for Battery



1st Floor

40A 40A 6A 6A 6A 20A 20A 20A



MCB Box with Cover 12

Smart Load

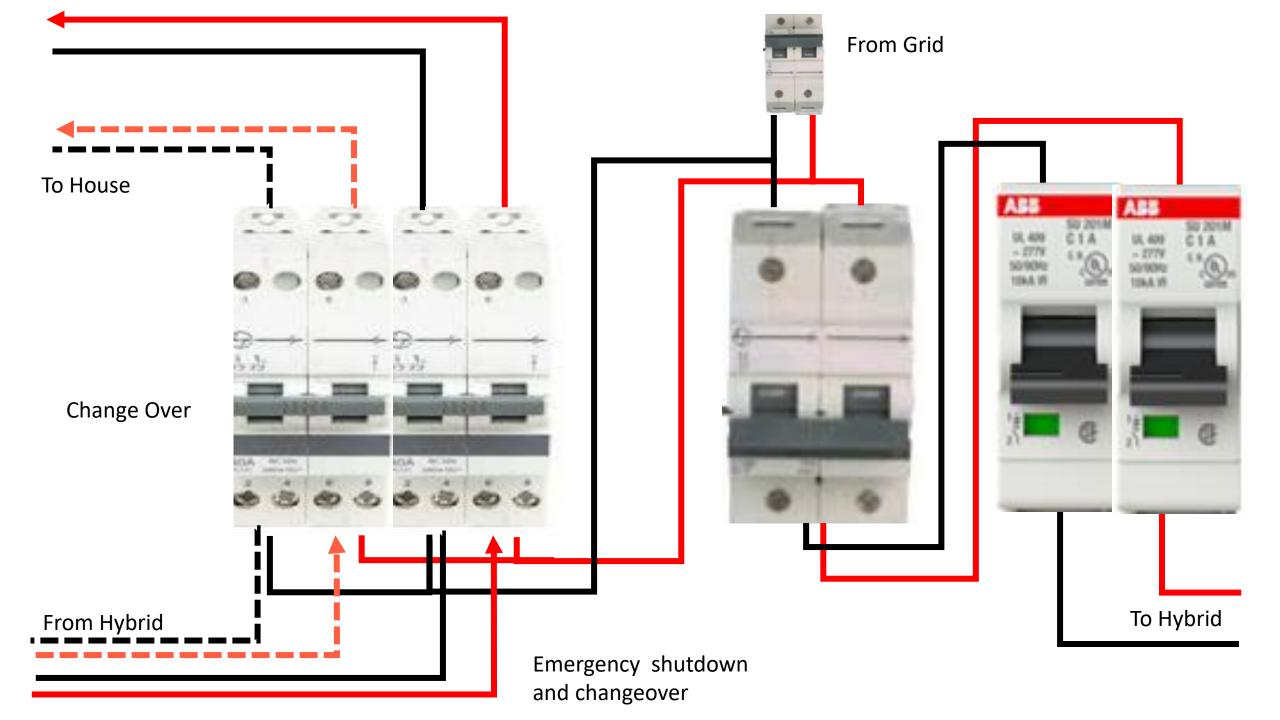
**Ground Floor** 

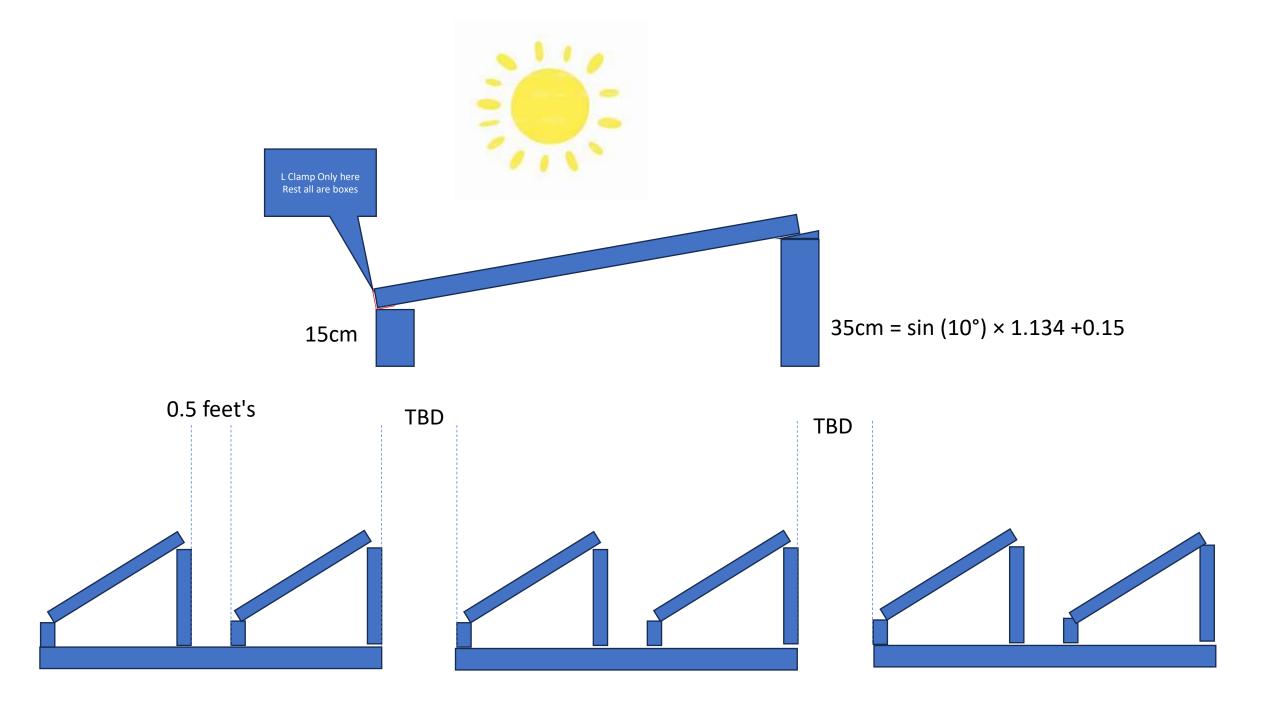
63A 63A

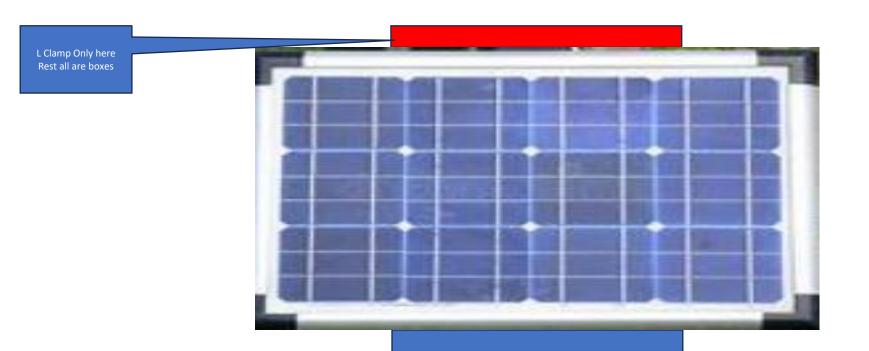
MCB Box with Cover 12

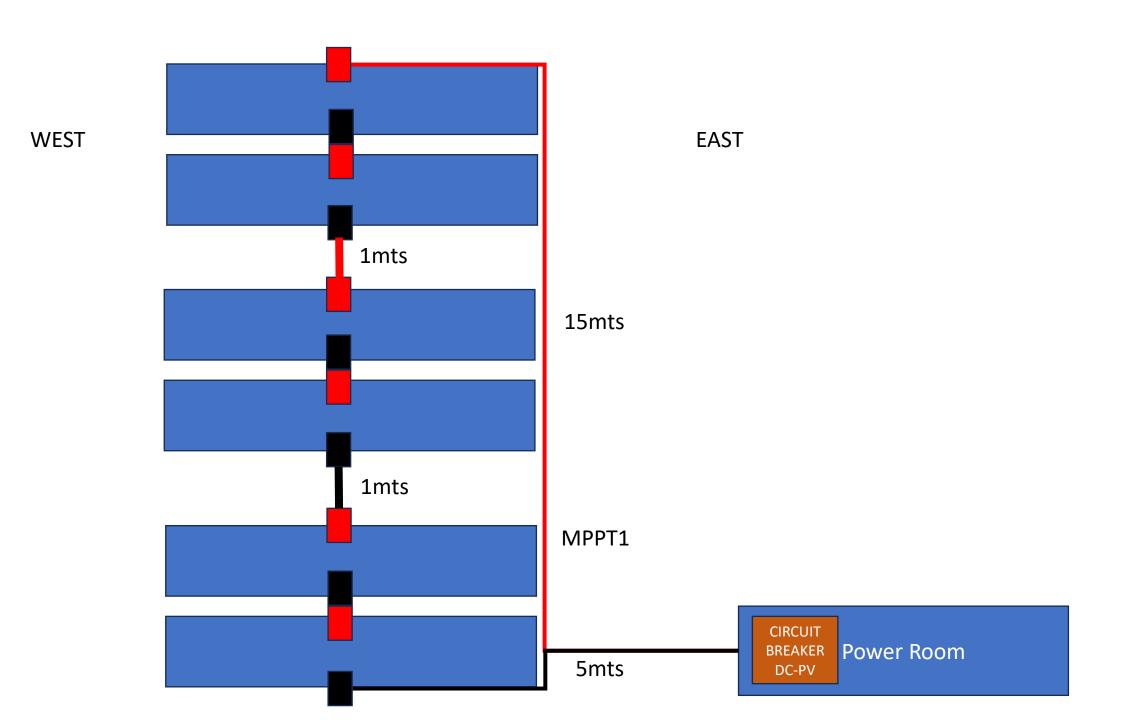


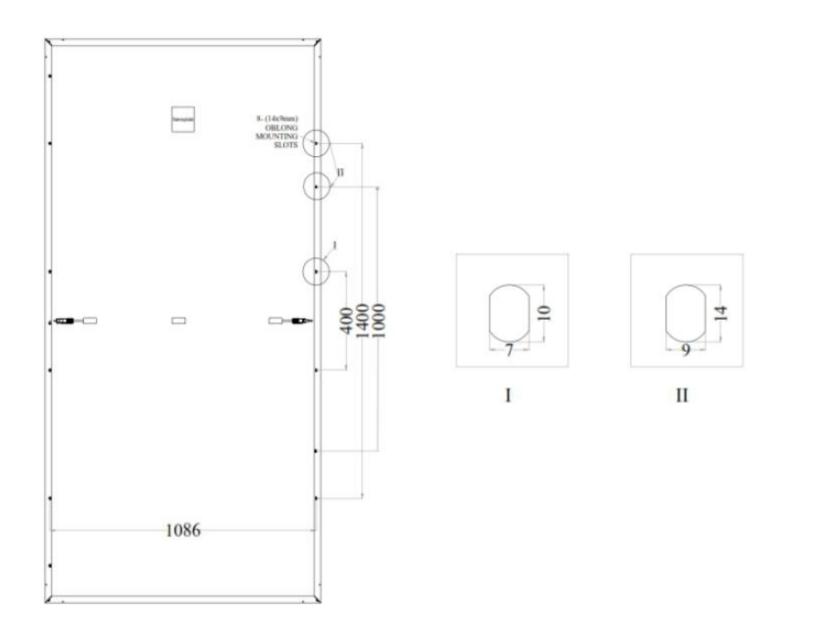
MCB Box with Cover 12 Emergency shutdown and changeover

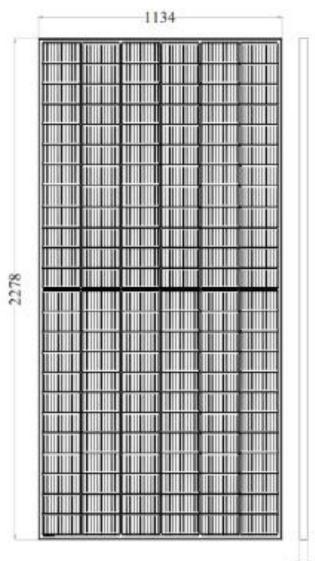










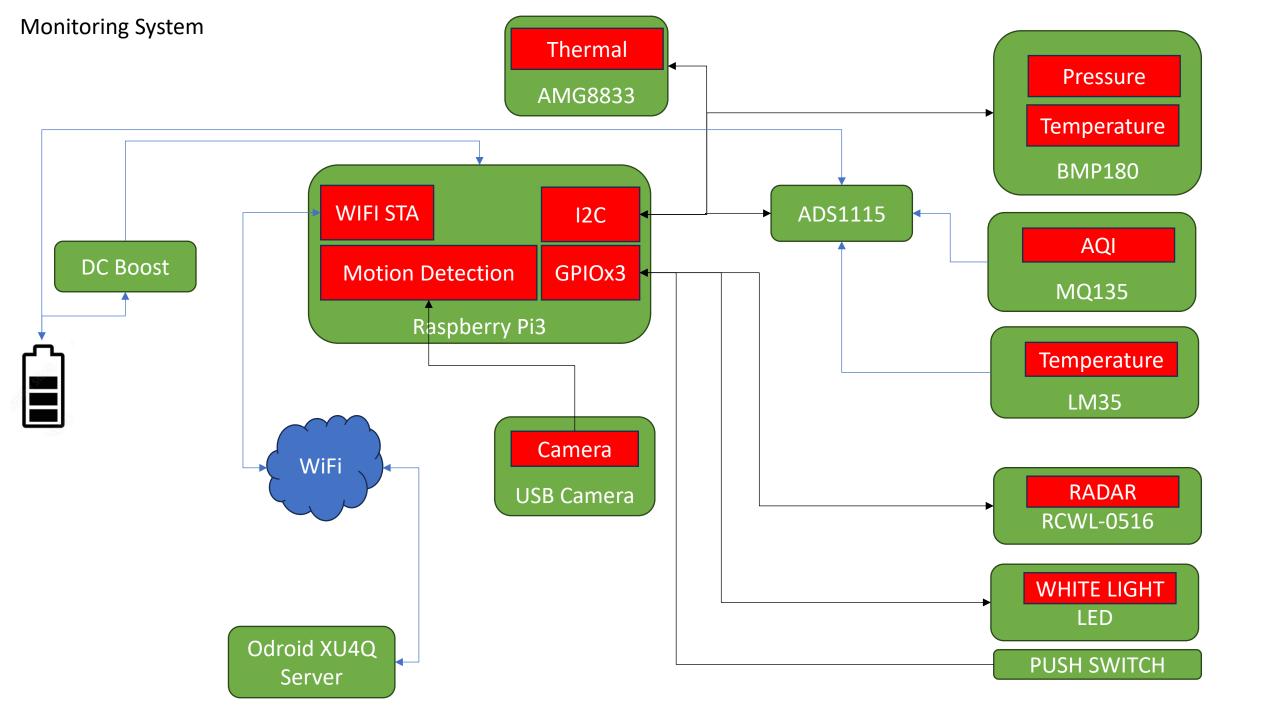


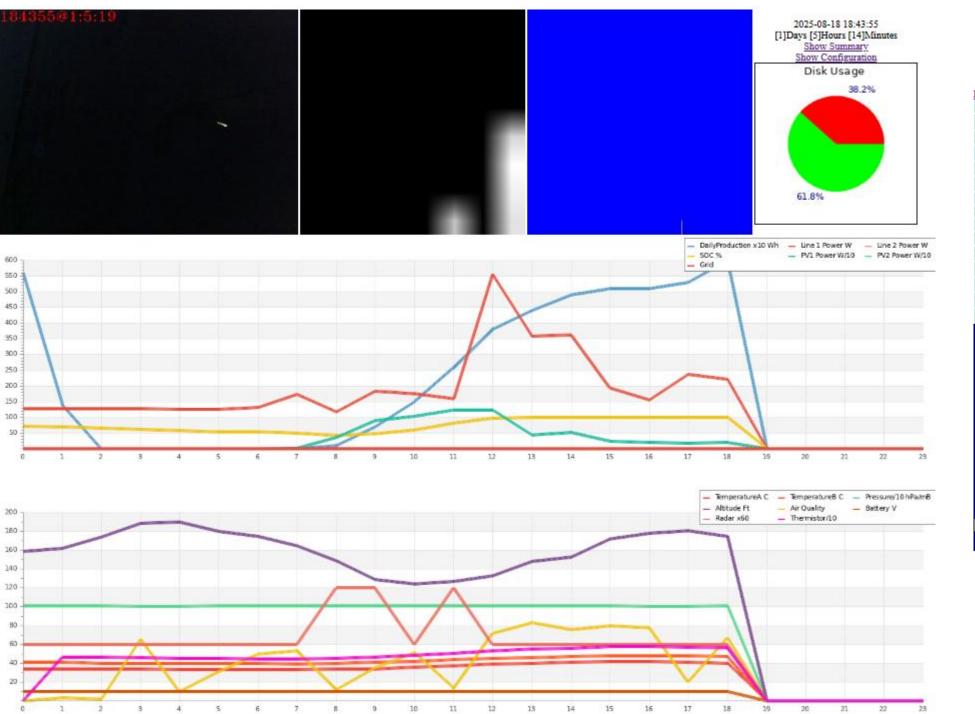
## System Configuration

- 60% SMART LOAD is ON and will resume if battery discharged to below 40% 50% Daily usage cycle.
- System will discharge at night load up to 50%, after that Grid power will be used to supplement the load, if grid fails at 50% then
  - 50%-40% = 10% = 0.5KW(150W/h)is SMART LOAD running time (fridge) ~ 3.3hrs backup
  - 50%-20% = 30% = 1.5KW(150W/h)is BACKUP LOAD running time(fan + lights) as emergency load
    10 hrs backup
- 40% SMART LOAD is OFF after battery discharged to 40%, BACKUP is still available up to 20%
- 30% Restart battery capacity required for Battery once it is gone below 20%
- 25% Low Battery Alarm

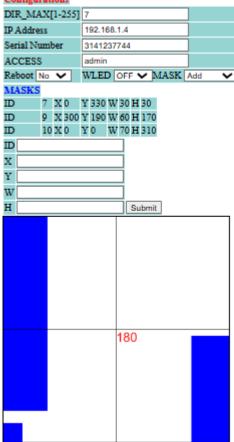
#### 20% - BACKUP and SMART both OFF - total power failure

Grid usage by system is set to  $10W + Actual load (\sim 220W = 2 Fan + 3 Tube lights and reference load = 300W)$ 

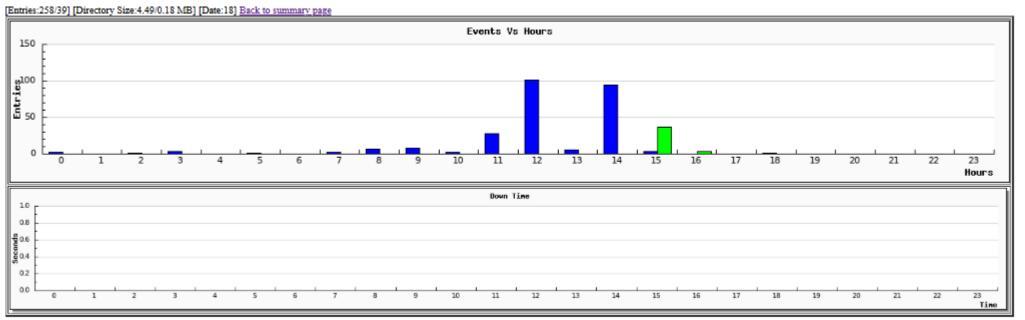




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