Smart Load (Conditional Load)













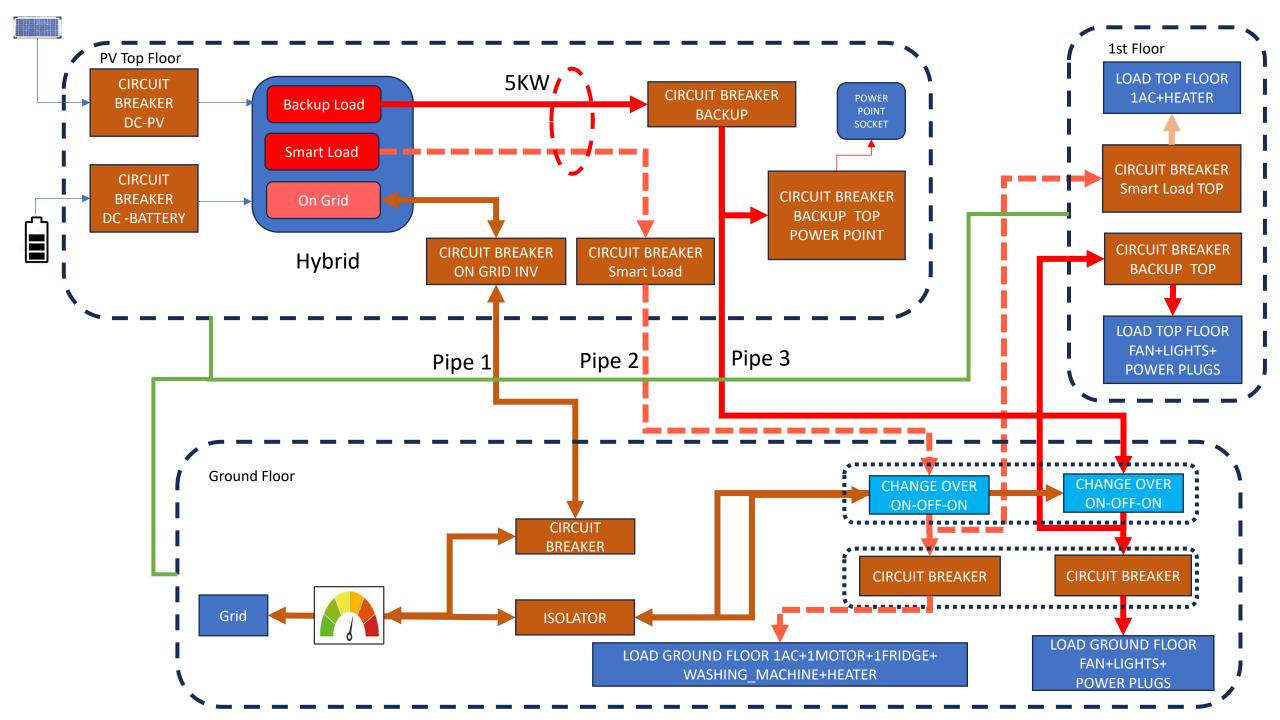
Backup Load (Emergency Load)

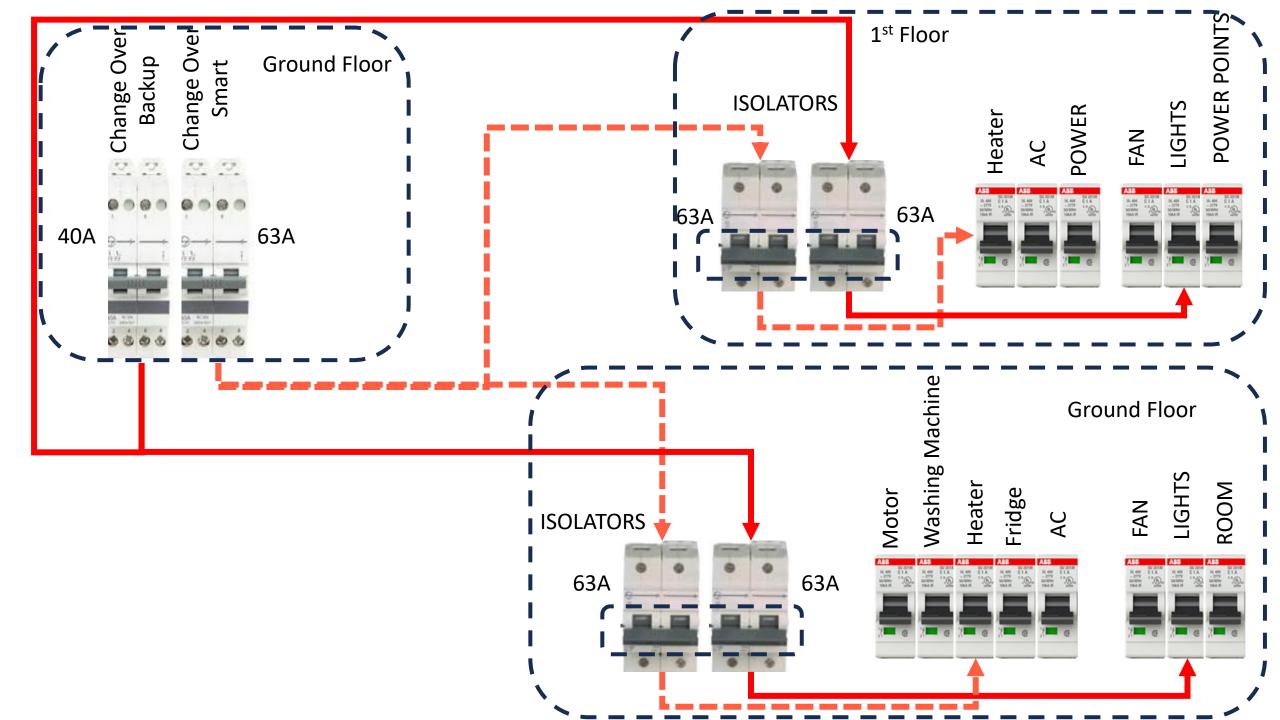


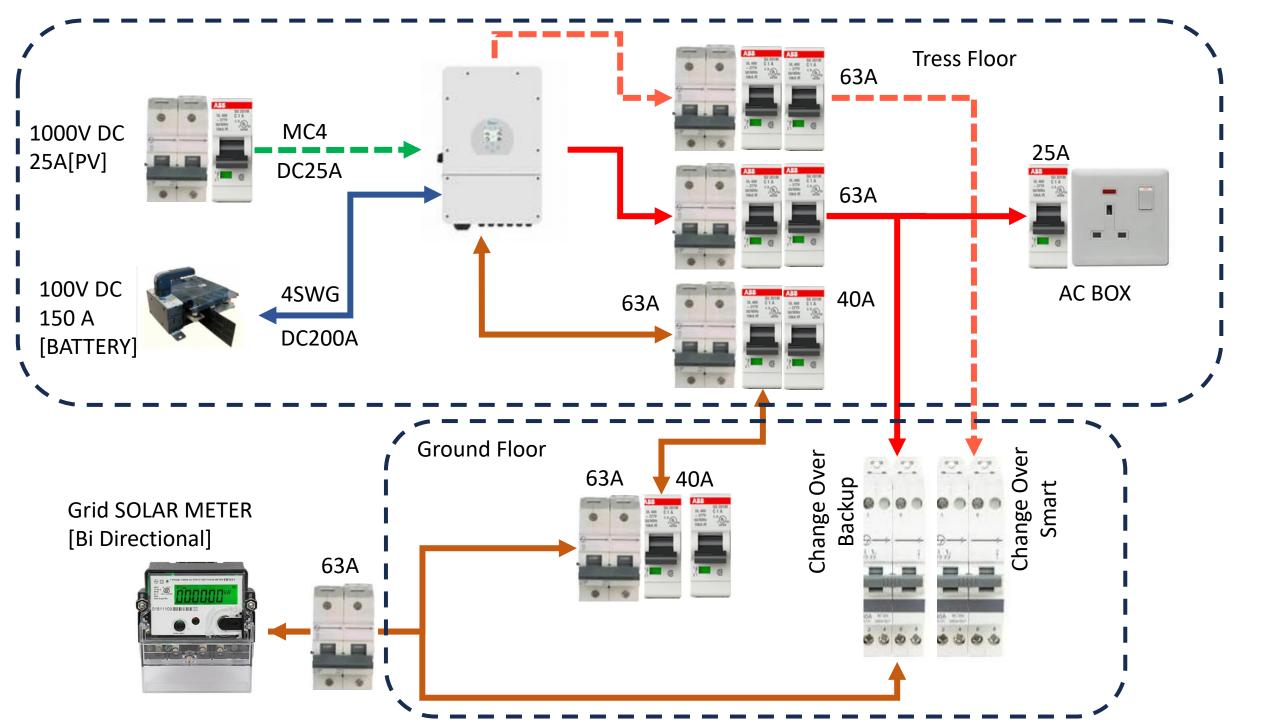




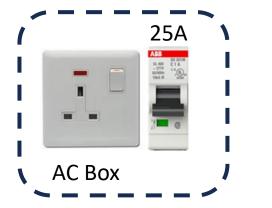








Tress Floor





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

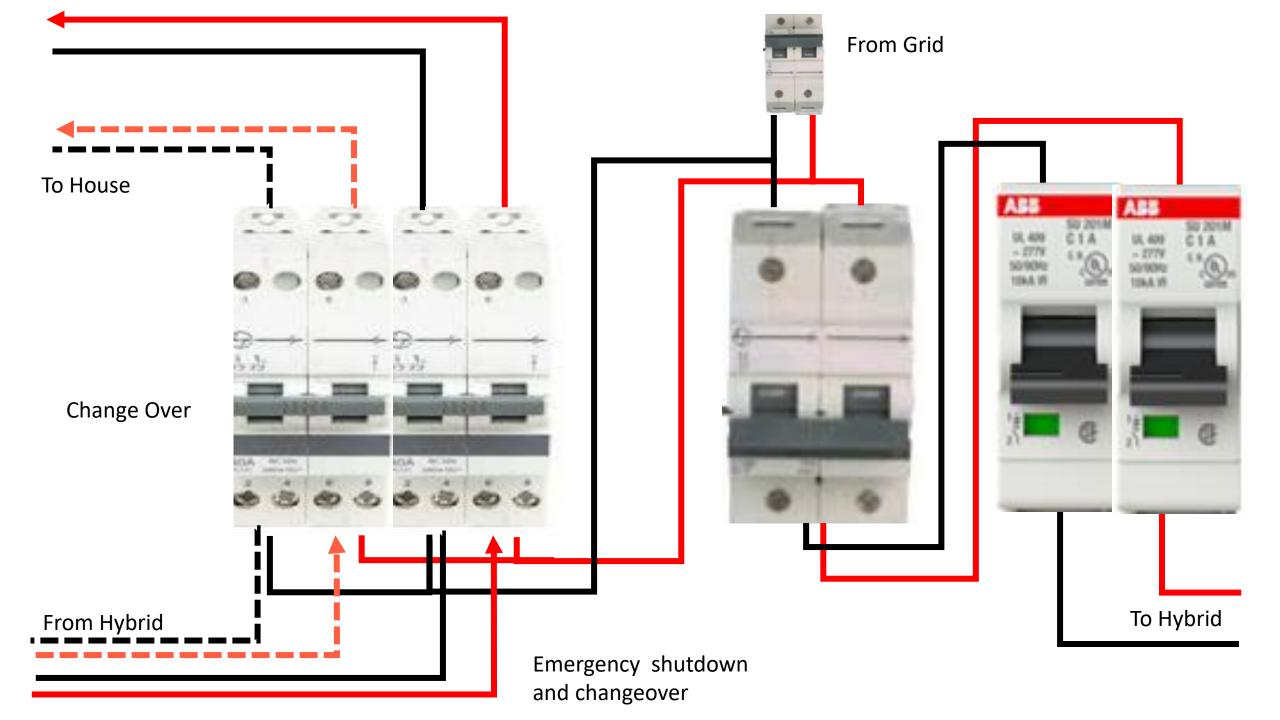
Ground Floor

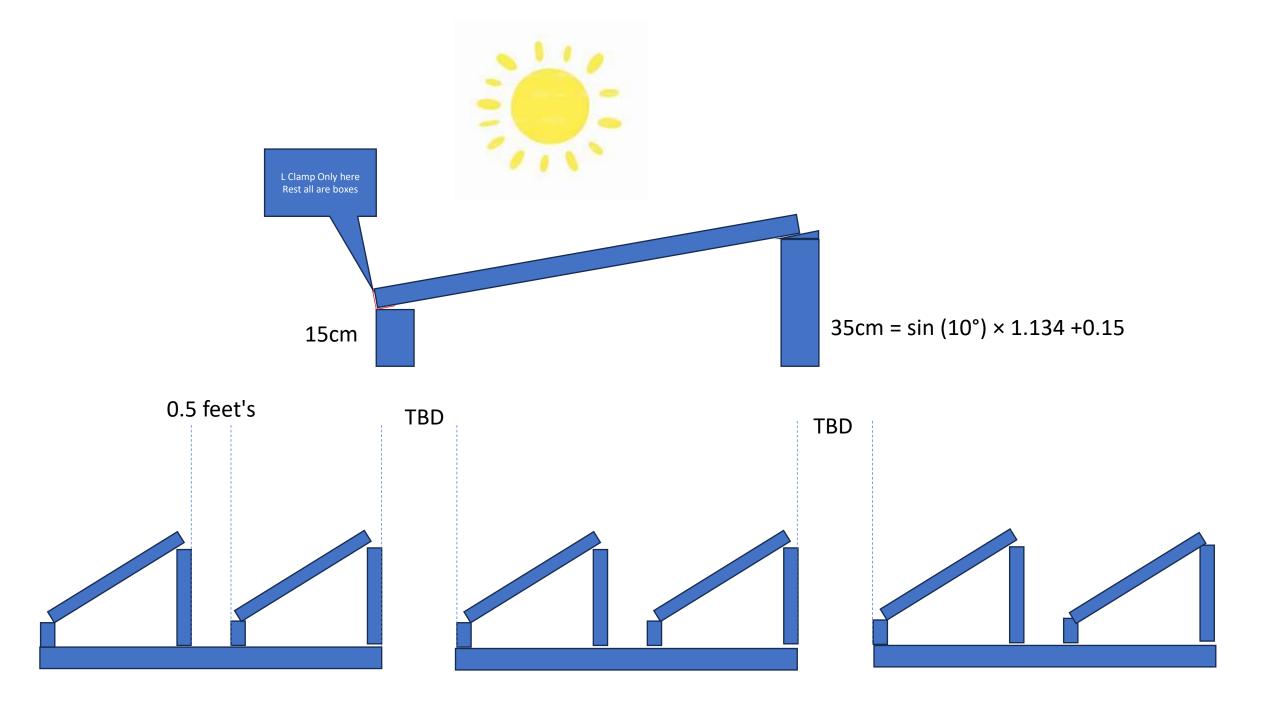
63A 63A

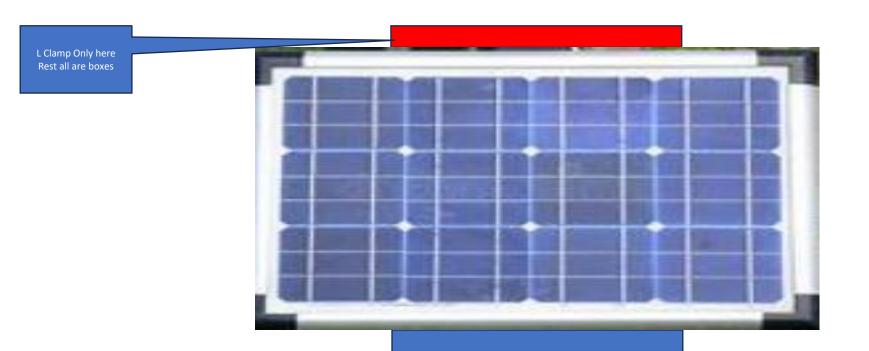
MCB Box with Cover 12

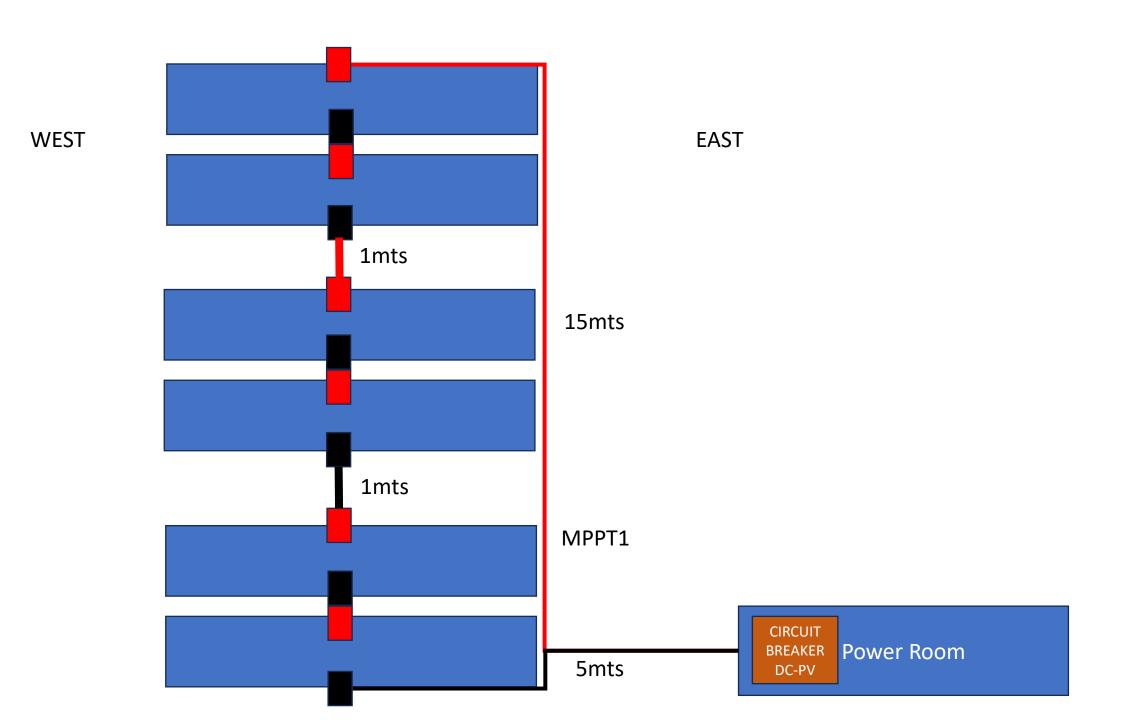


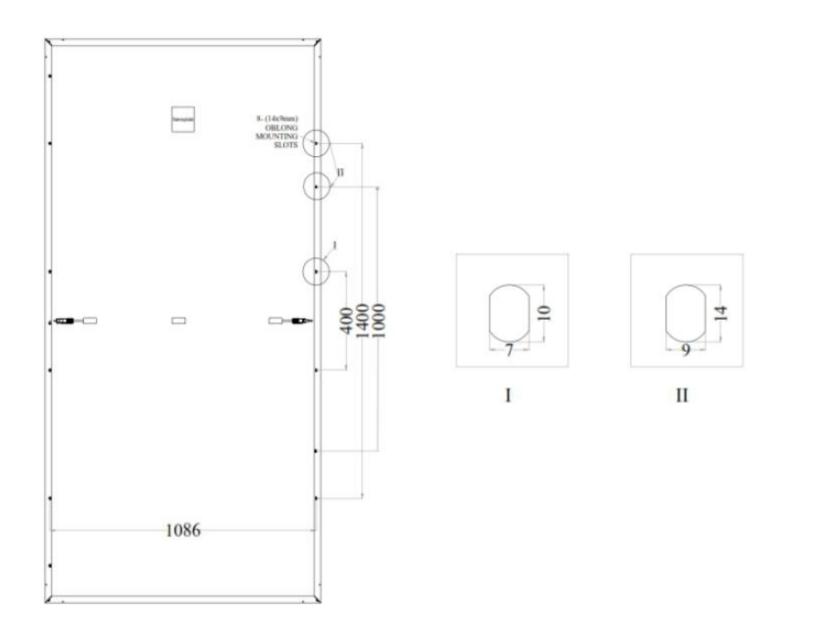
MCB Box with Cover 12 Emergency shutdown and changeover

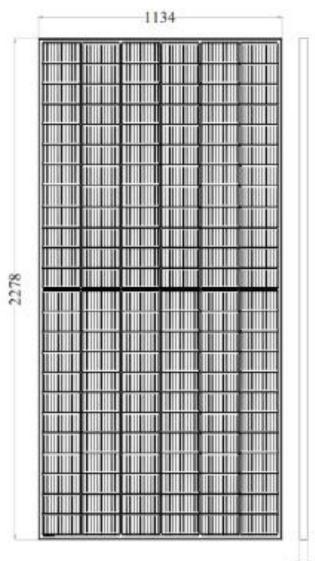










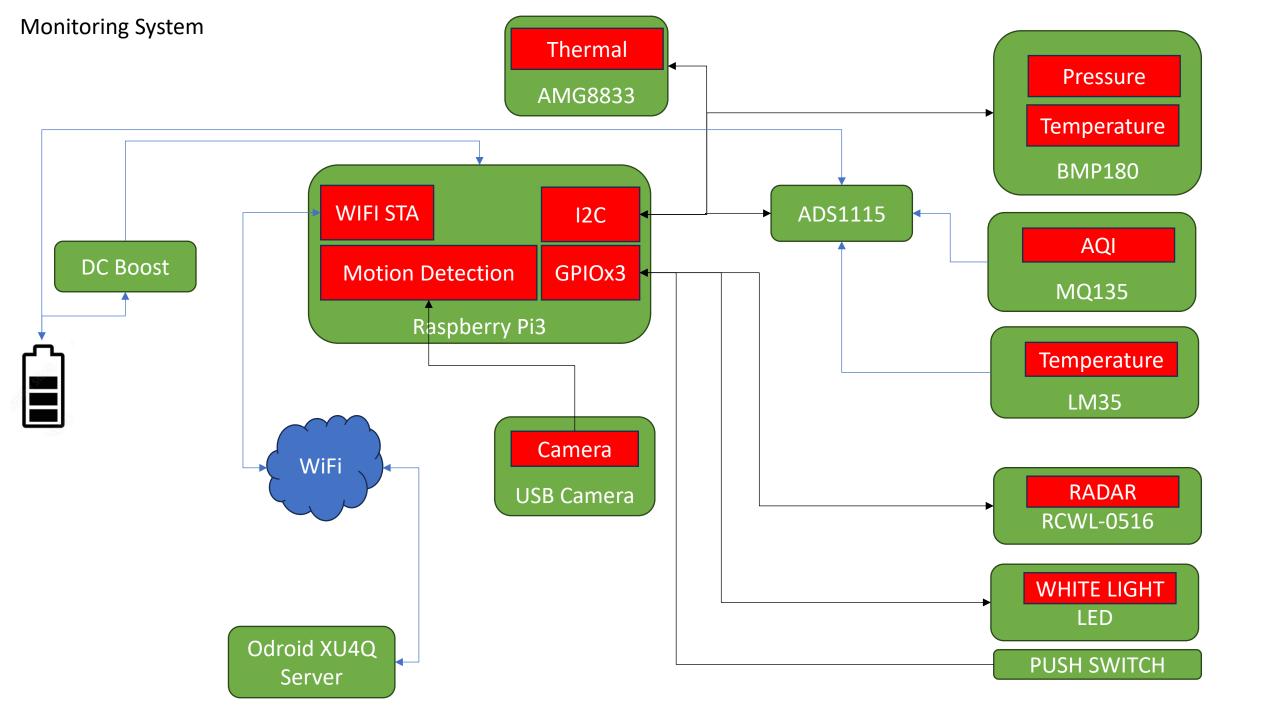


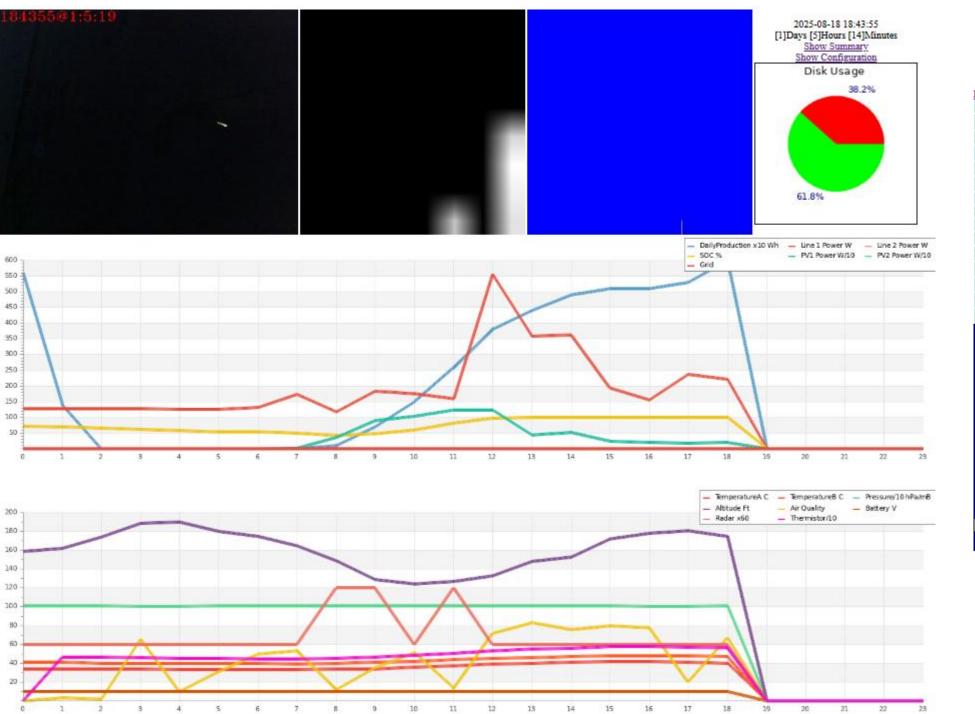
System Configuration

- 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) ~ 1.5hrs backup
 - 50%-20% = 30% = 1.5KW(150W/h)is BACKUP LOAD running time(fan + lights) as emergency load
 8 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

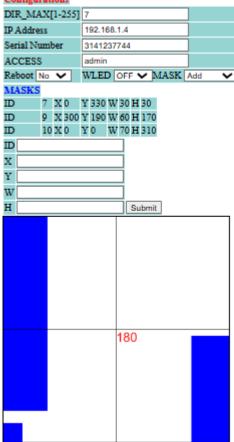
20% - BACKUP and SMART both OFF - total power failure

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

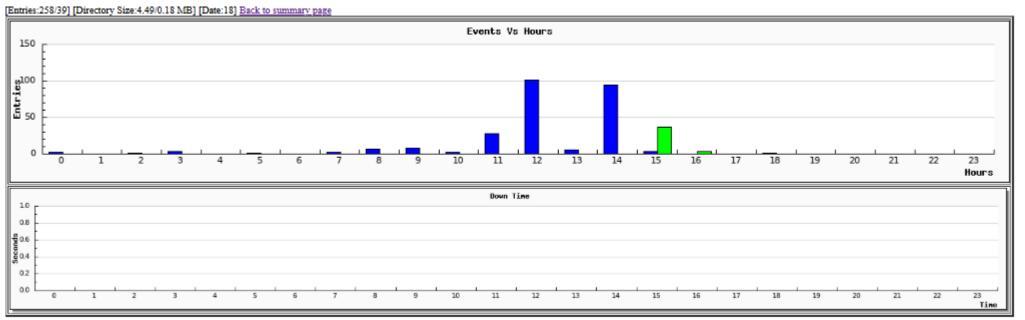




Back to main page Configurations







Select Hour: 0 🗸

Submit

