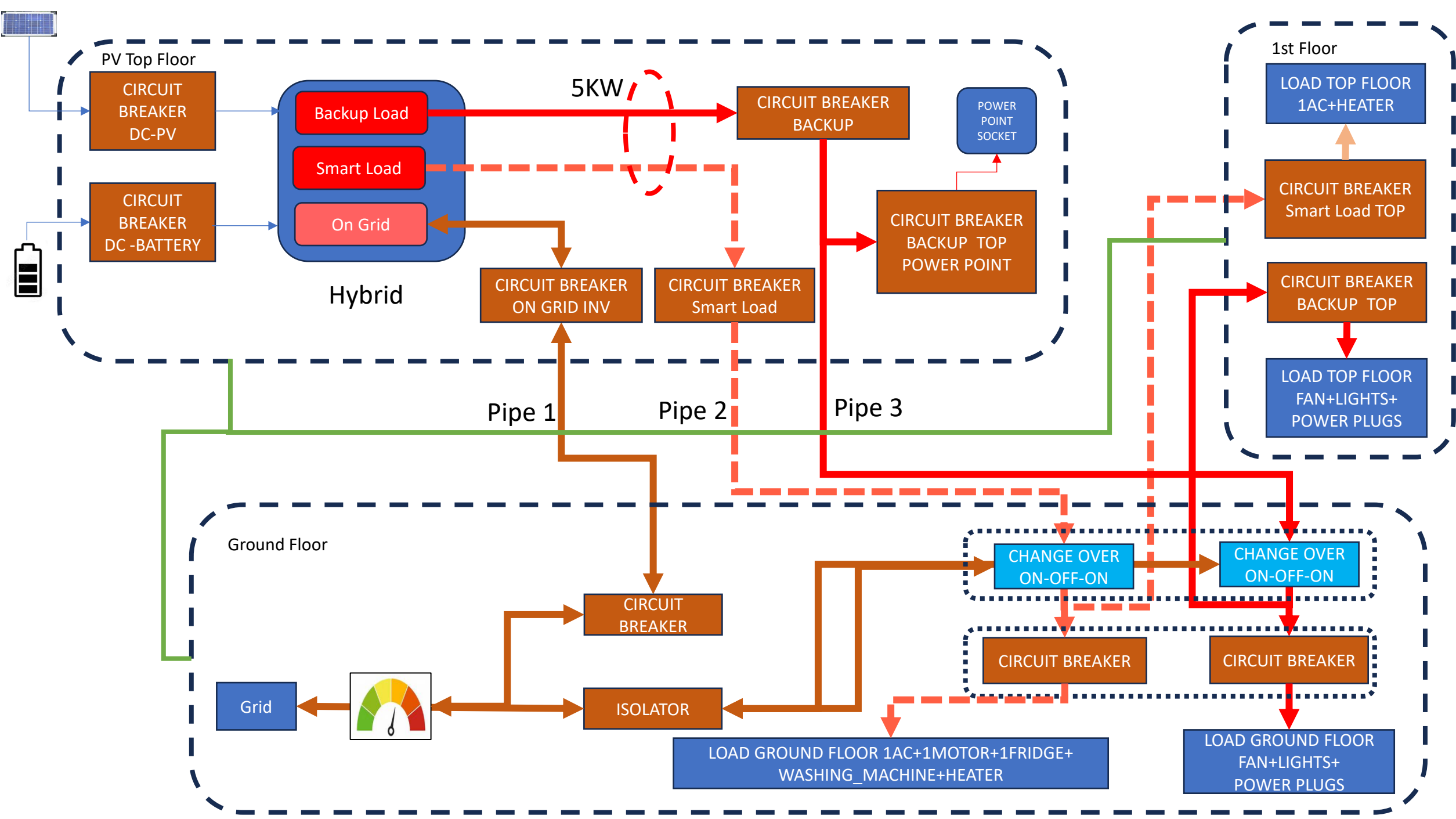


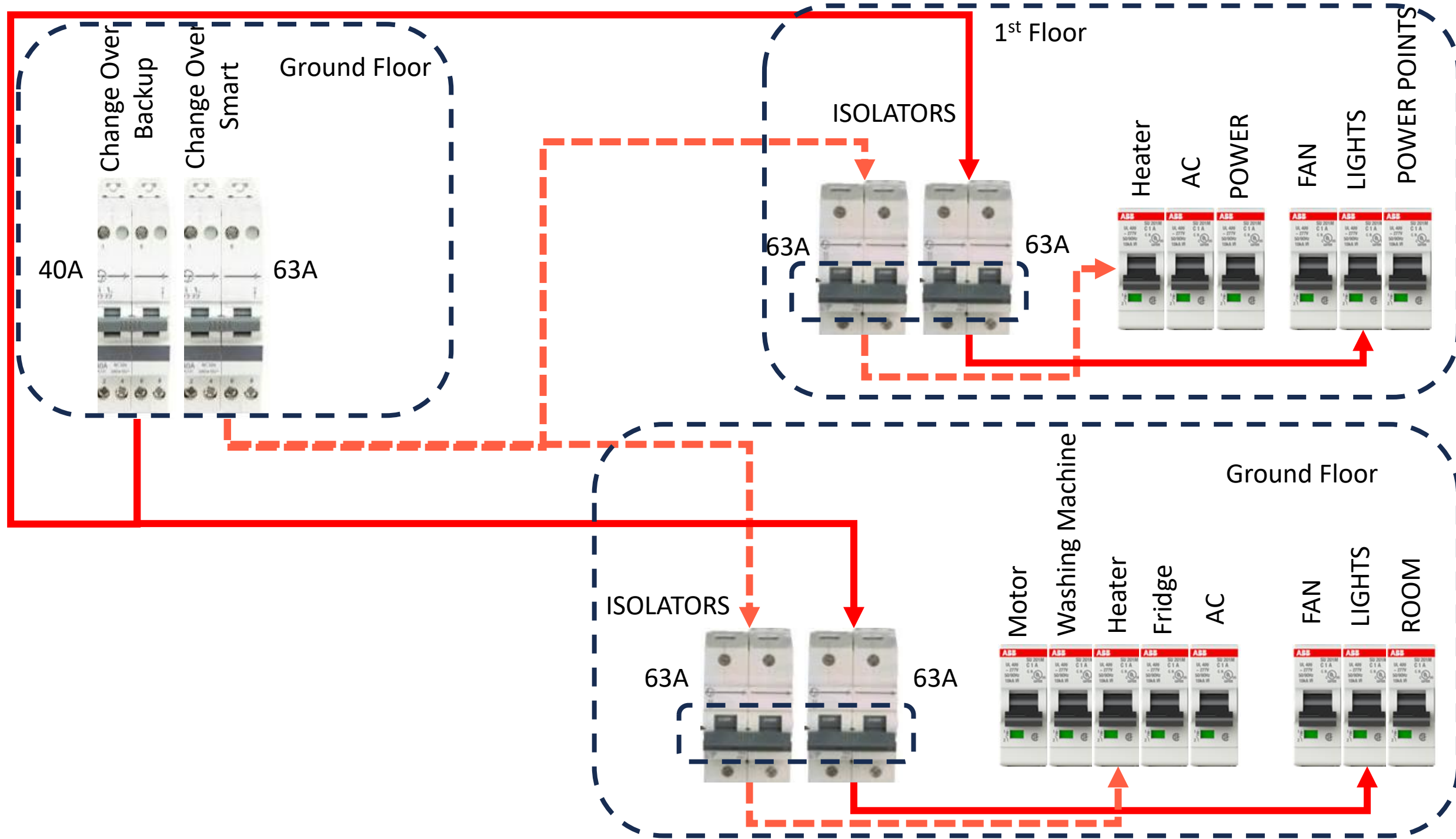
Smart Load (Conditional Load)

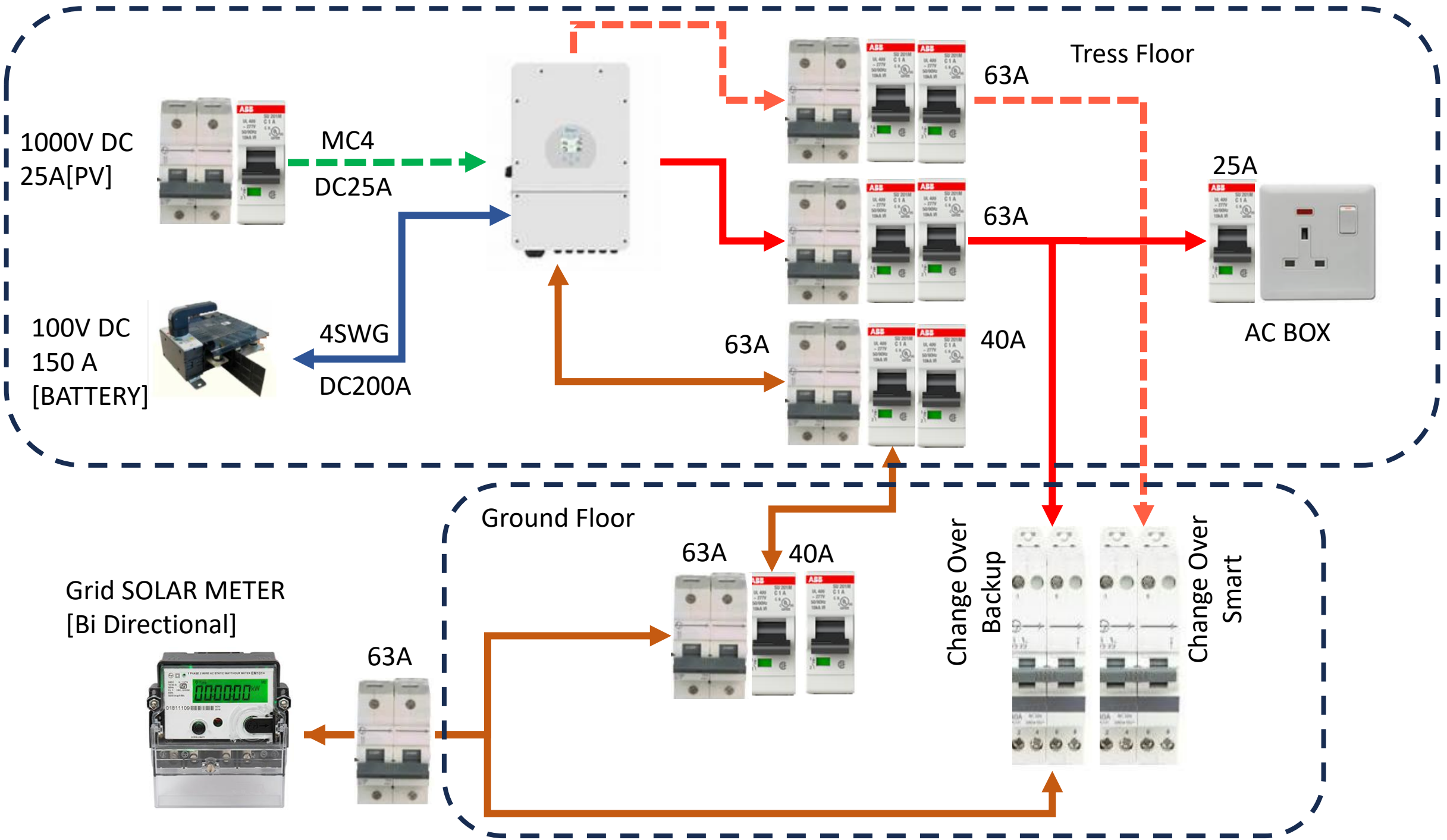


Backup Load (Emergency Load)





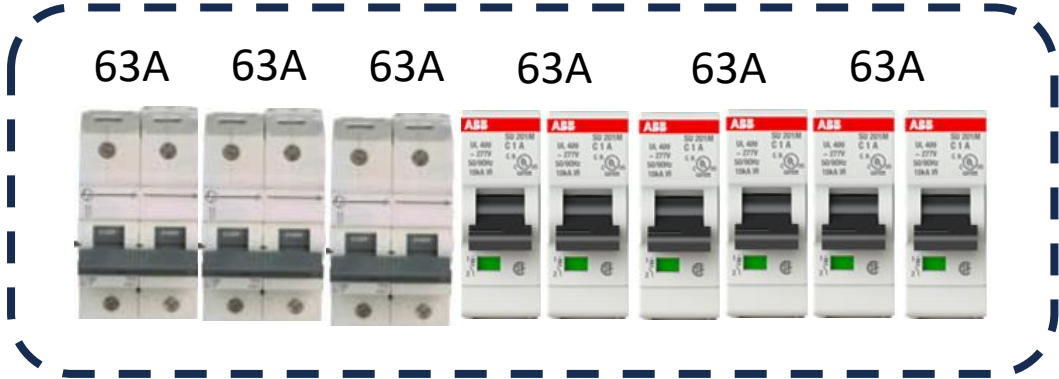




Tress Floor



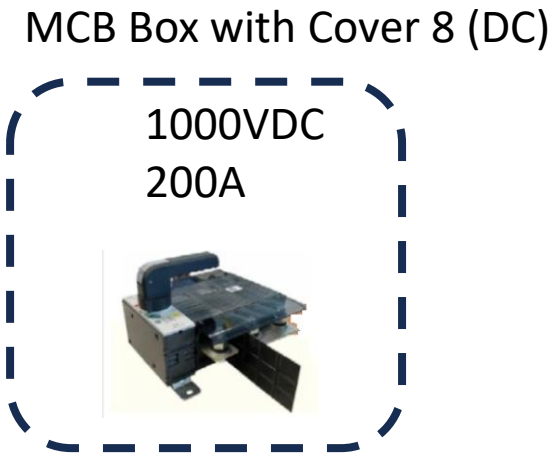
SUN-5K-SG04LP1-EU



MCB Box with Cover 12 (AC)



SE-G5.3



DC Isolator for Battery

1st Floor

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



MCB Box with Cover 12

Grid

Smart Load

Backup Load

Ground Floor

63A 63A



MCB Box with Cover 12



63A



40A



63A

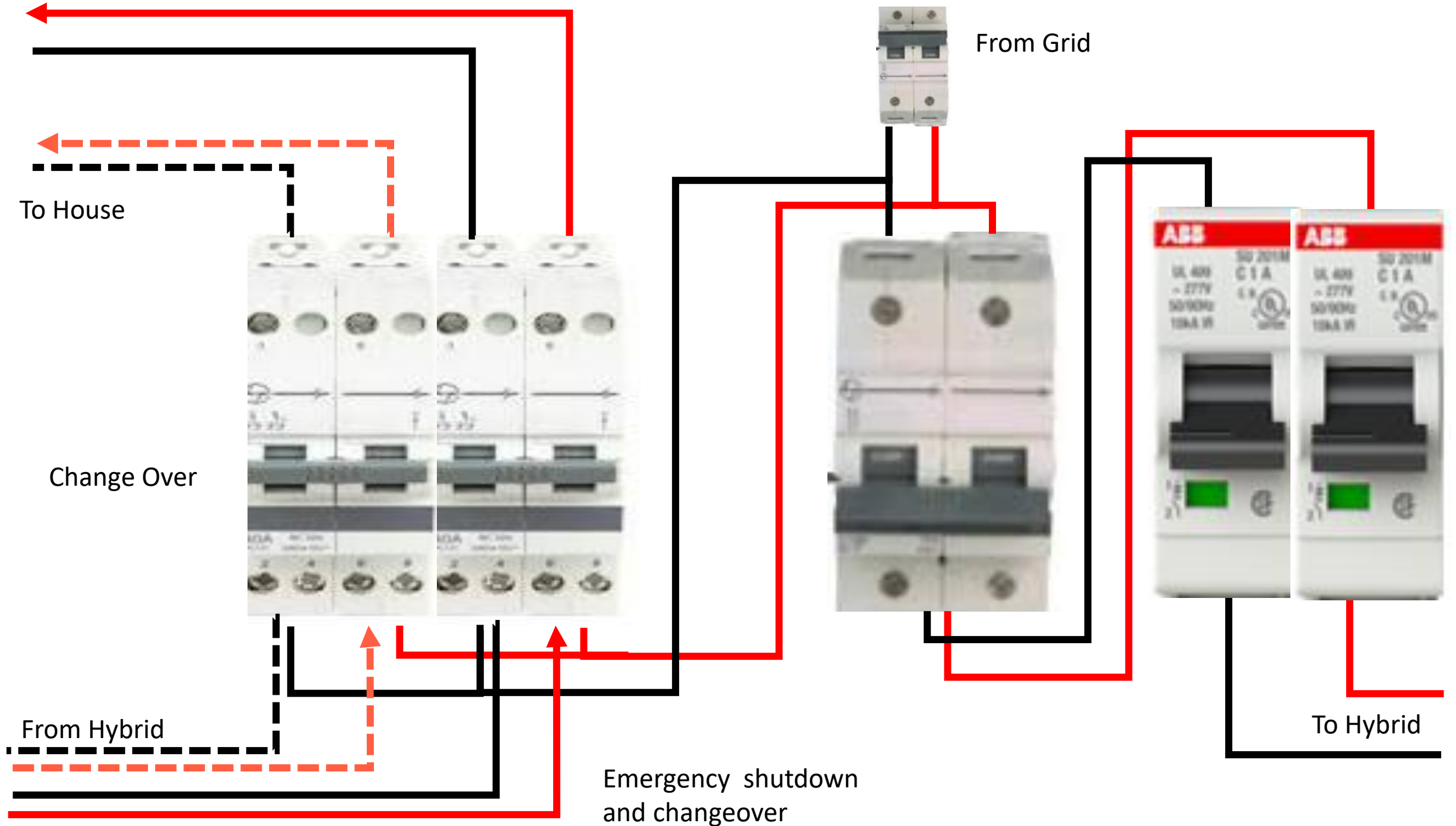


63A



40A

MCB Box with Cover 12
Emergency shutdown
and changeover





L Clamp Only here
Rest all are boxes

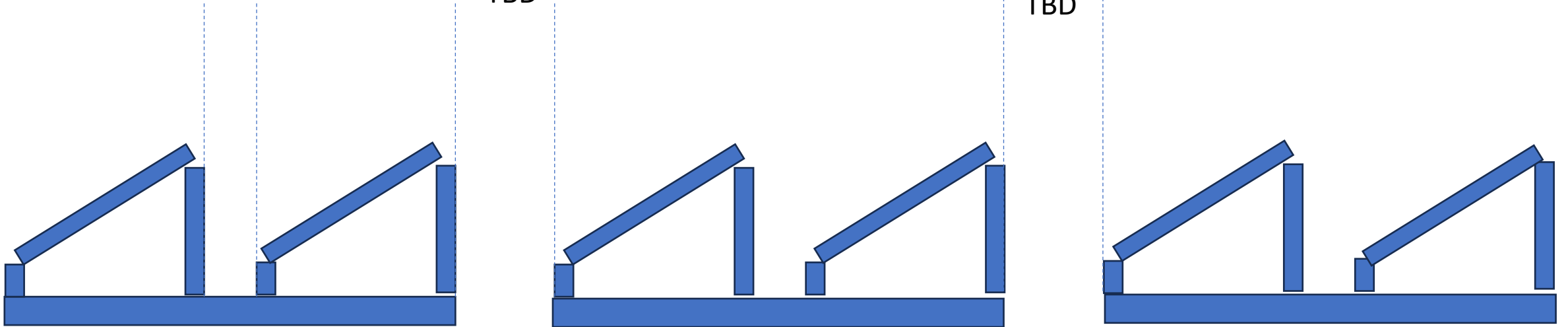
15cm

$$35\text{cm} = \sin(10^\circ) \times 1.134 + 0.15$$

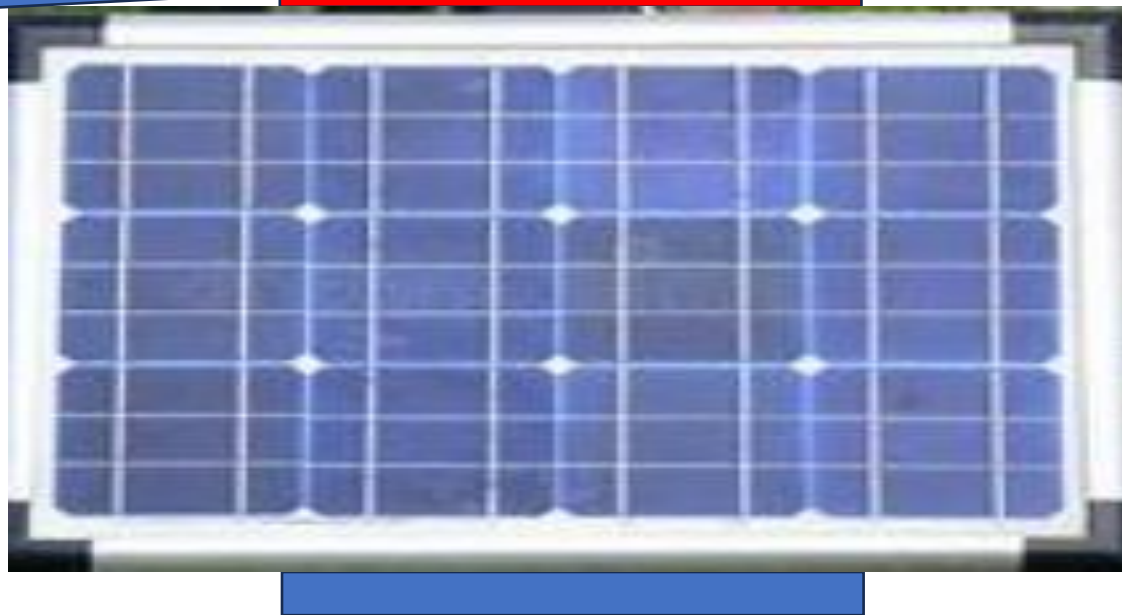
0.5 feet's

TBD

TBD

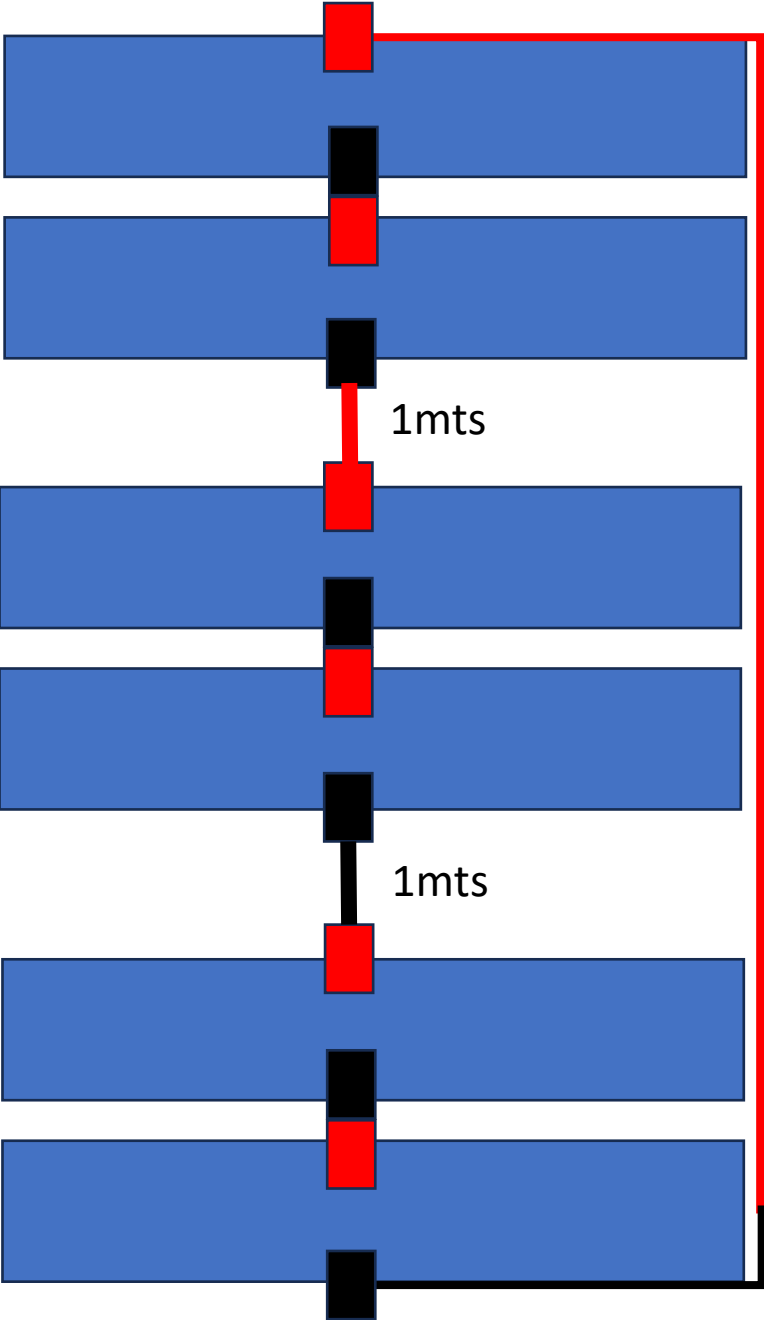


L Clamp Only here
Rest all are boxes



WEST

EAST



1mts

15mts

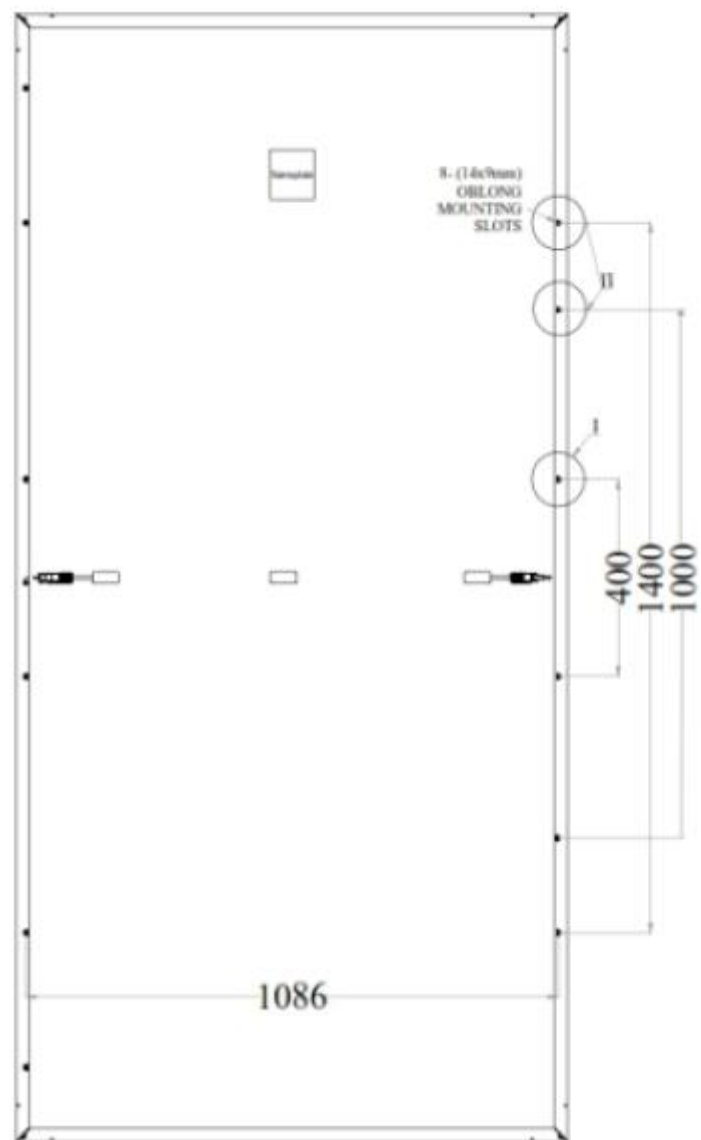
1mts

MPPT1

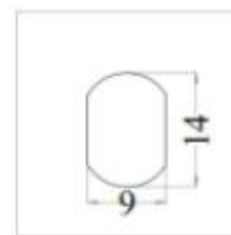
5mts

CIRCUIT
BREAKER
DC-PV

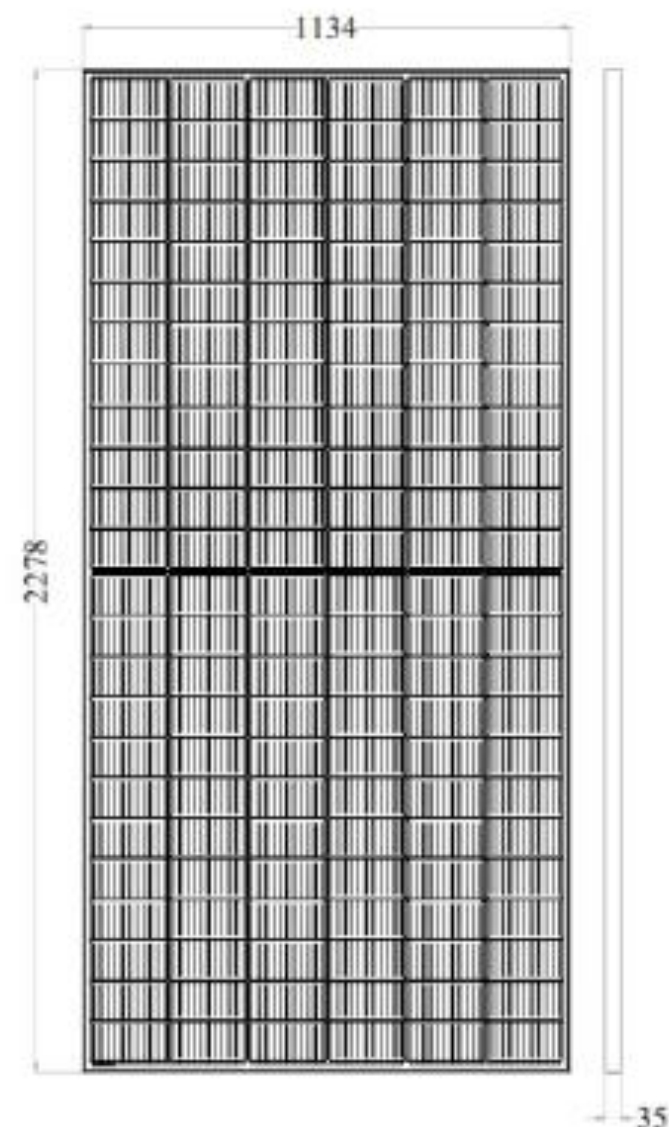
Power Room



I



II



35

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%

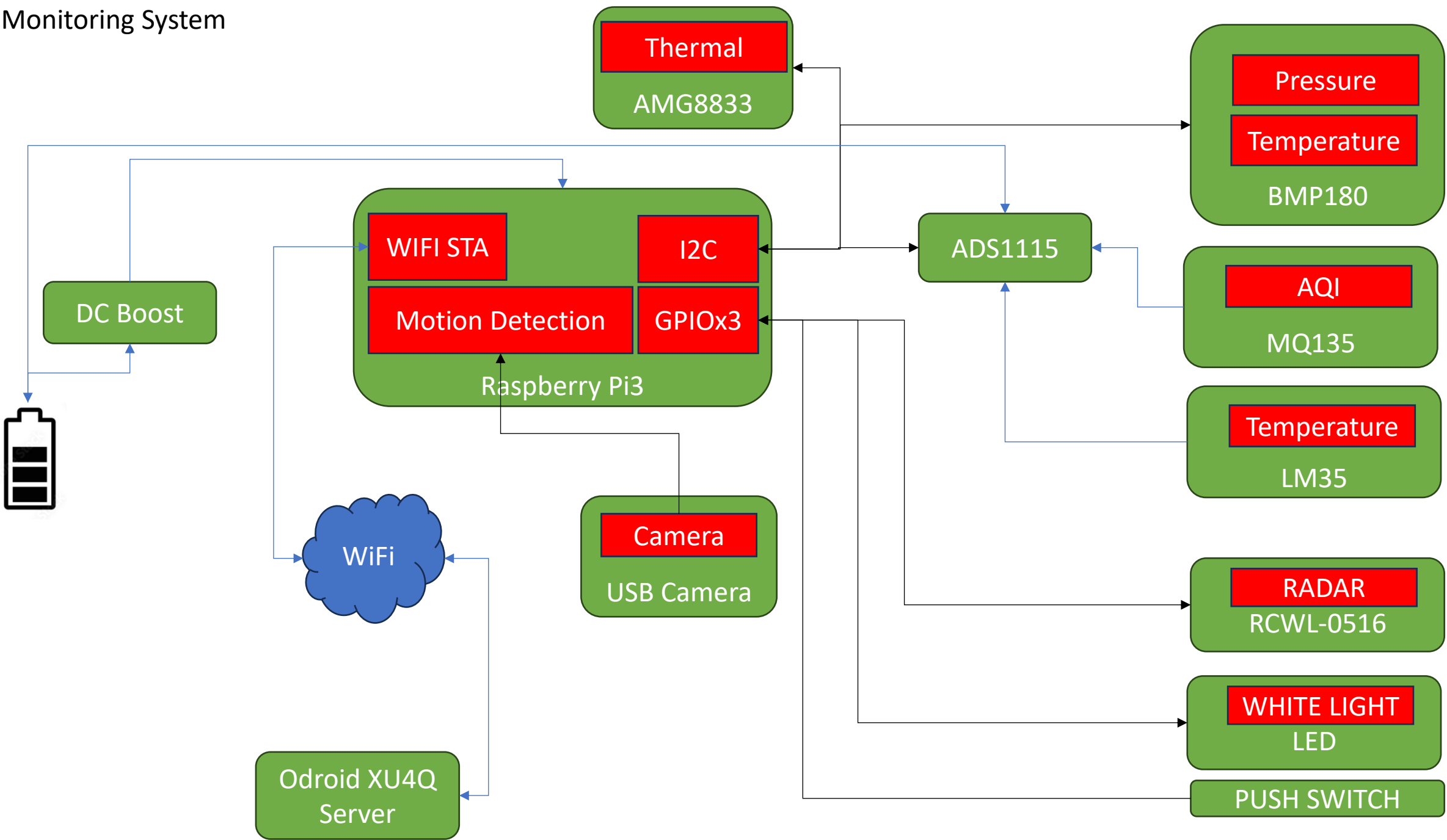
30% - Restart battery capacity required for Battery once it is gone below 20%

25% - Low Battery Alarm

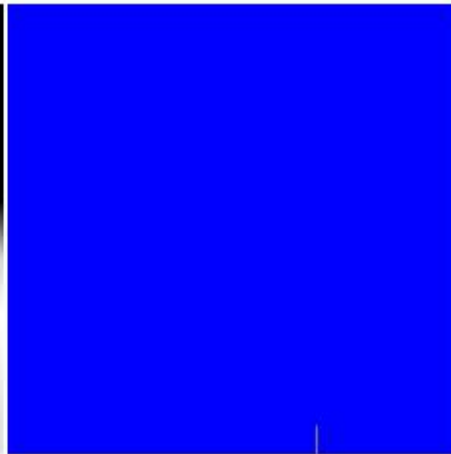
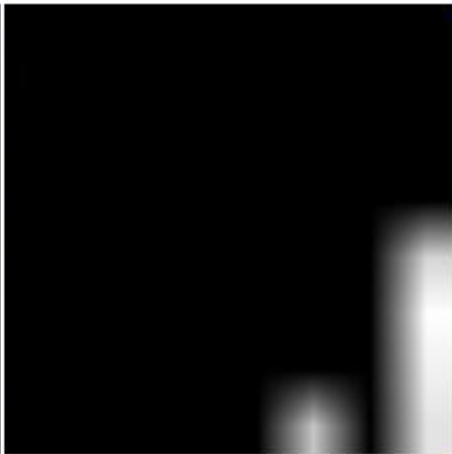
20% - BACKUP and SMART both OFF – total power failure

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

Monitoring System



184355@1:5:19



2025-08-18 18:43:55
[1]Days [5]Hours [14]Minutes

[Show Summary](#)

[Show Configuration](#)

Disk Usage



[Back to main page](#)

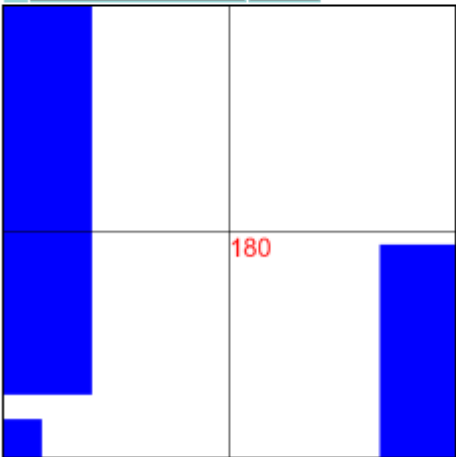
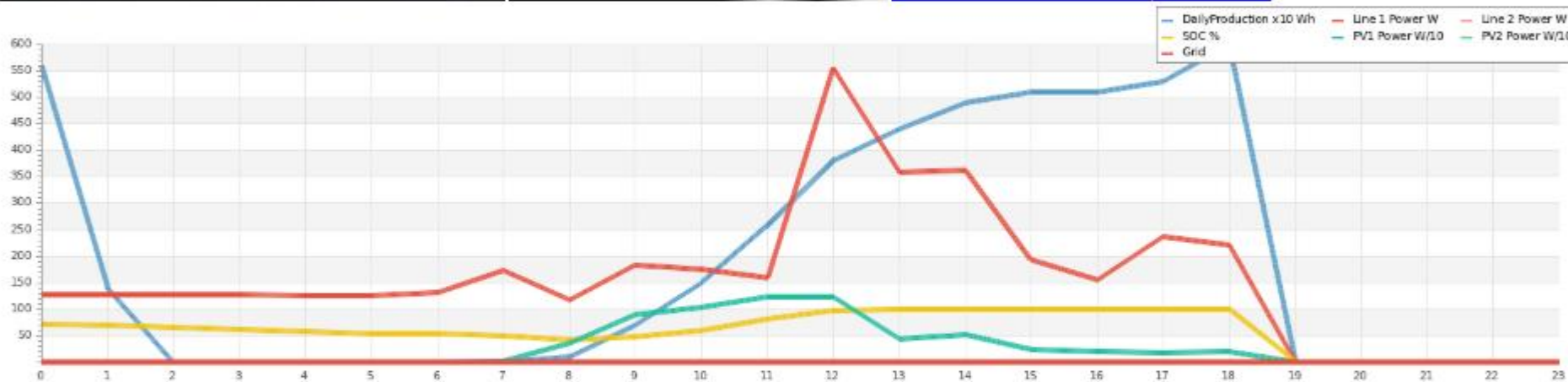
[Configurations](#)

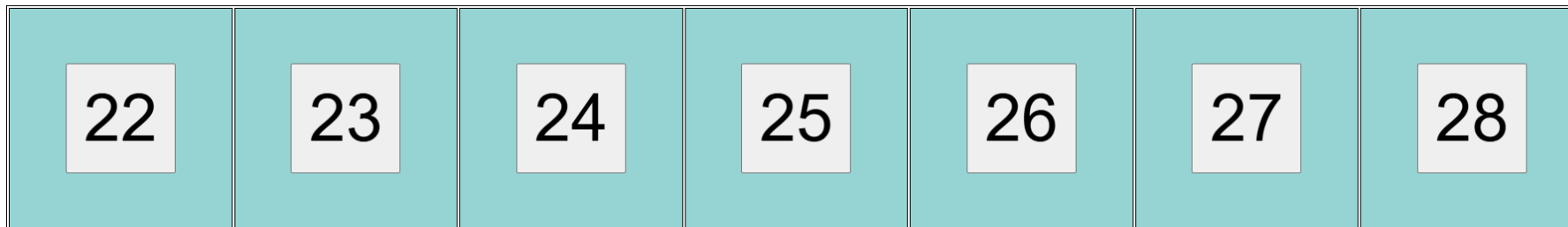
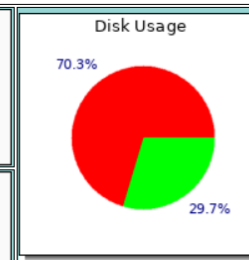
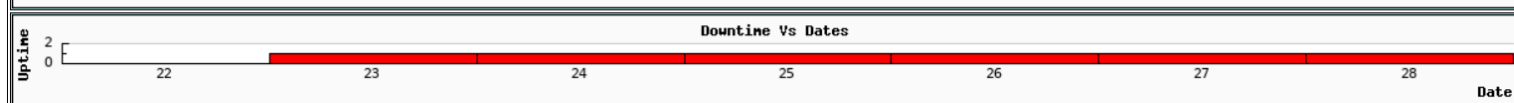
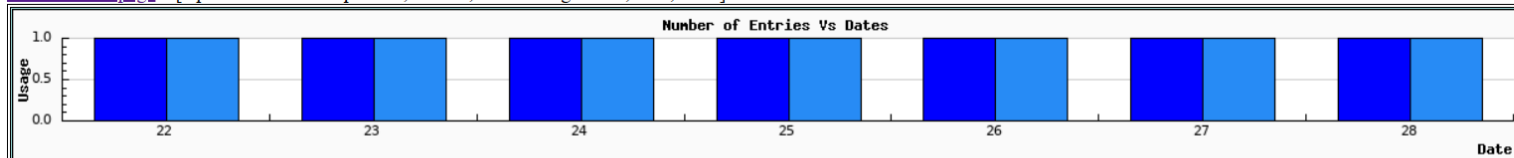
DIR_MAX[1-255]	<input type="text" value="7"/>
IP Address	<input type="text" value="192.168.1.4"/>
Serial Number	<input type="text" value="3141237744"/>
ACCESS	<input type="text" value="admin"/>
Reboot	<input type="button" value="No"/>
WLED	<input type="button" value="OFF"/>
MASK	<input type="button" value="Add"/>

[MASKS](#)

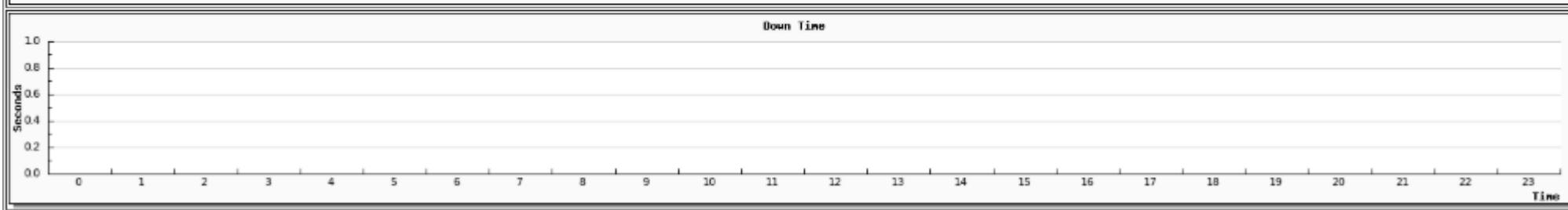
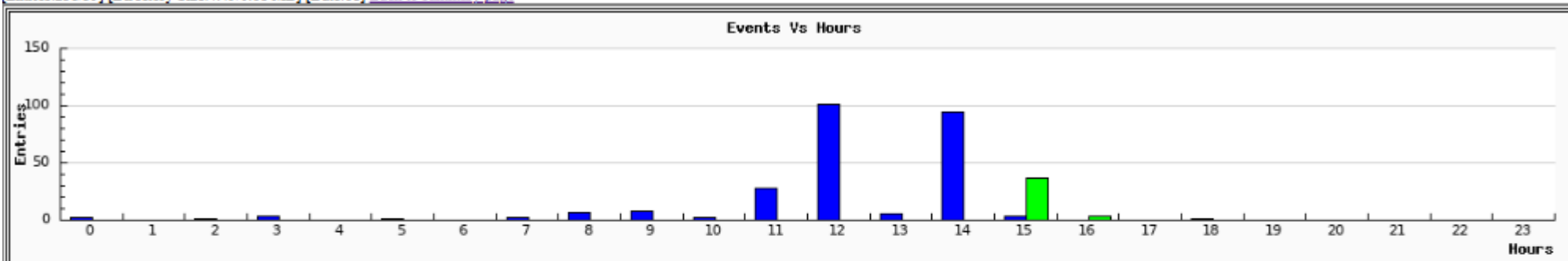
ID	7	X 0	Y 330	W 30	H 30
ID	9	X 300	Y 190	W 60	H 170
ID	10	X 0	Y 0	W 70	H 310

ID	<input type="text"/>
X	<input type="text"/>
Y	<input type="text"/>
W	<input type="text"/>
H	<input type="text"/>
<input type="button" value="Submit"/>	





Entries:258/39 [Directory Size:4.49/0.18 MB] [Date:18] [Back to summary page](#)



Select Hour: ▼

