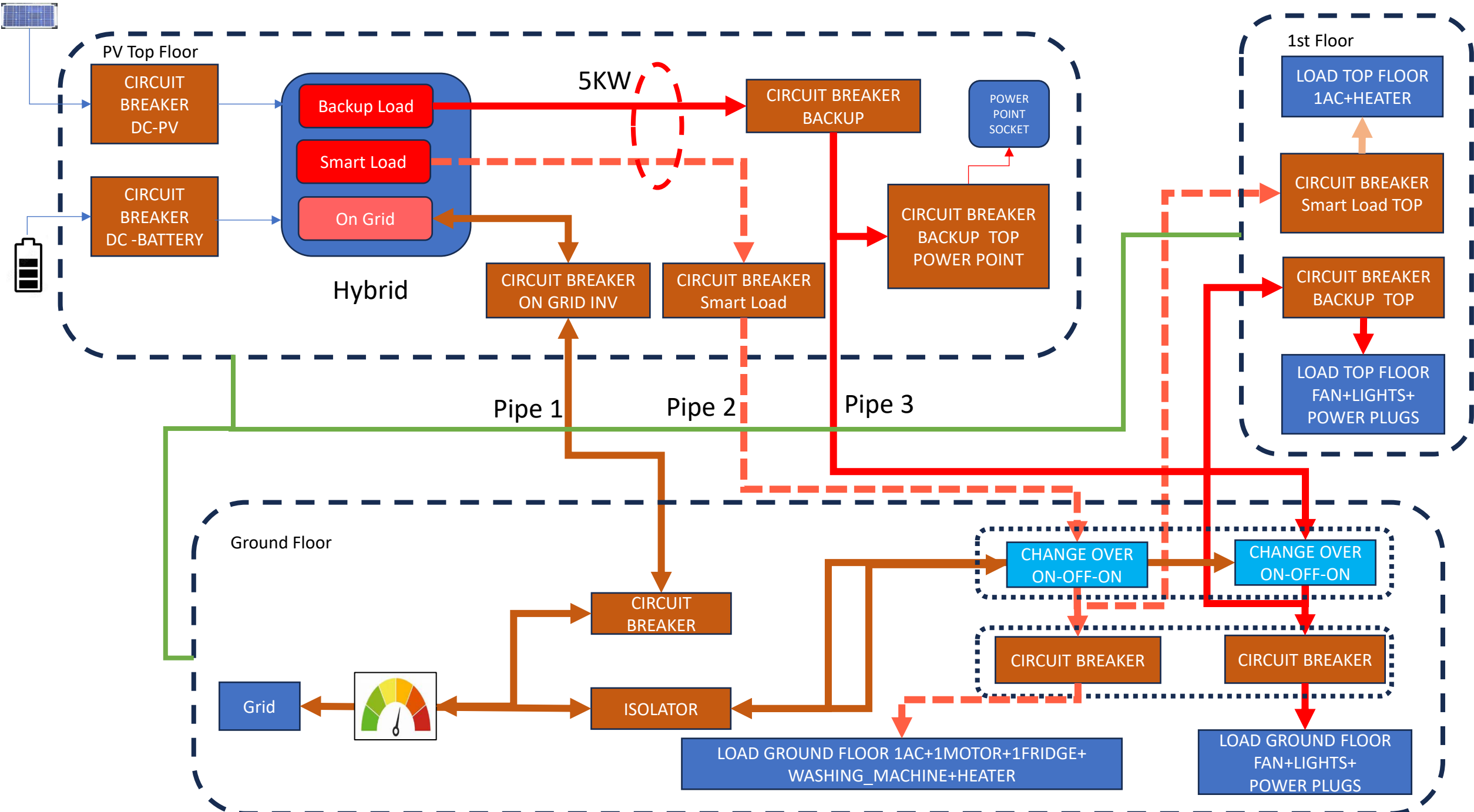


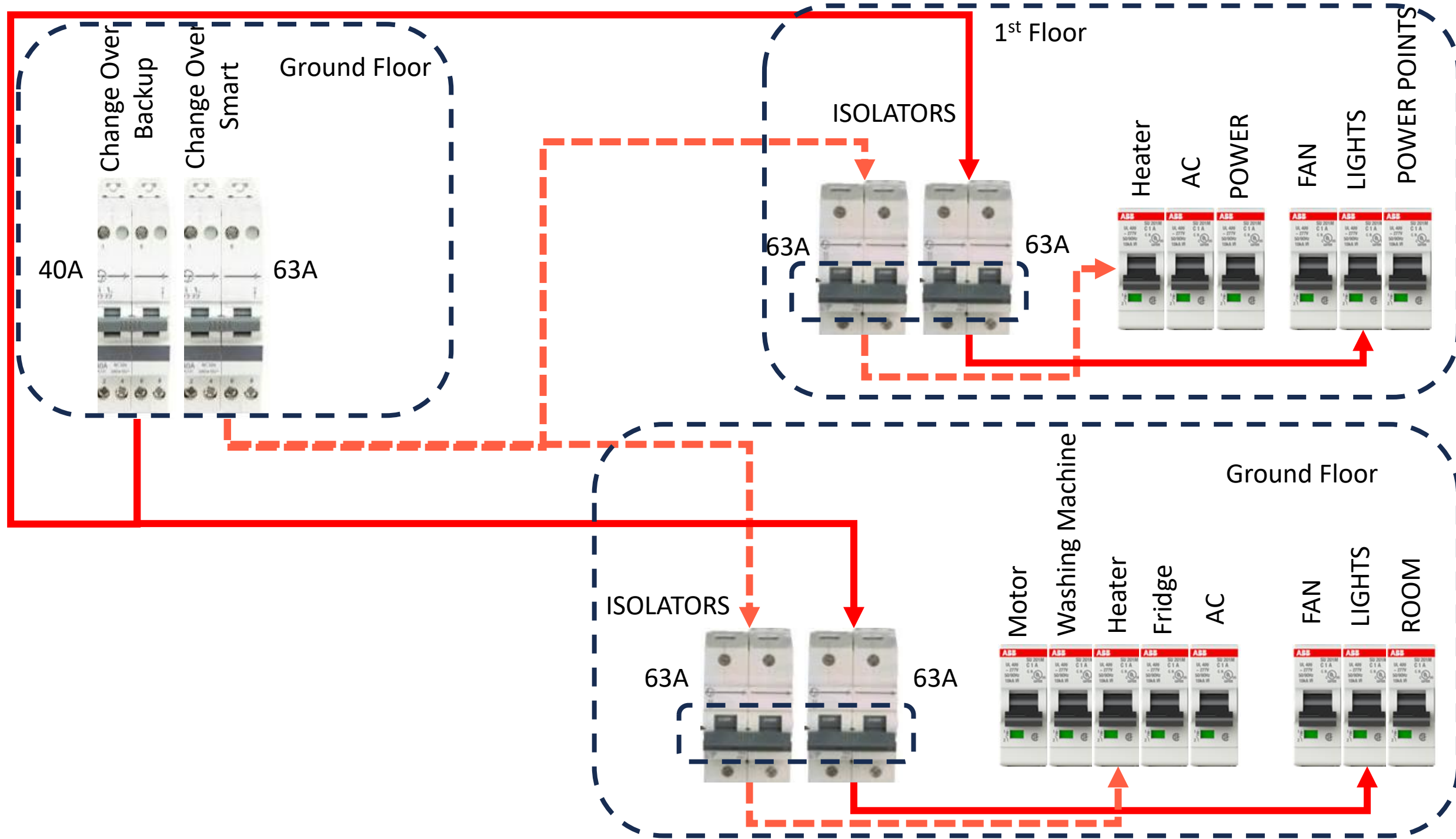
Smart Load (Conditional Load)

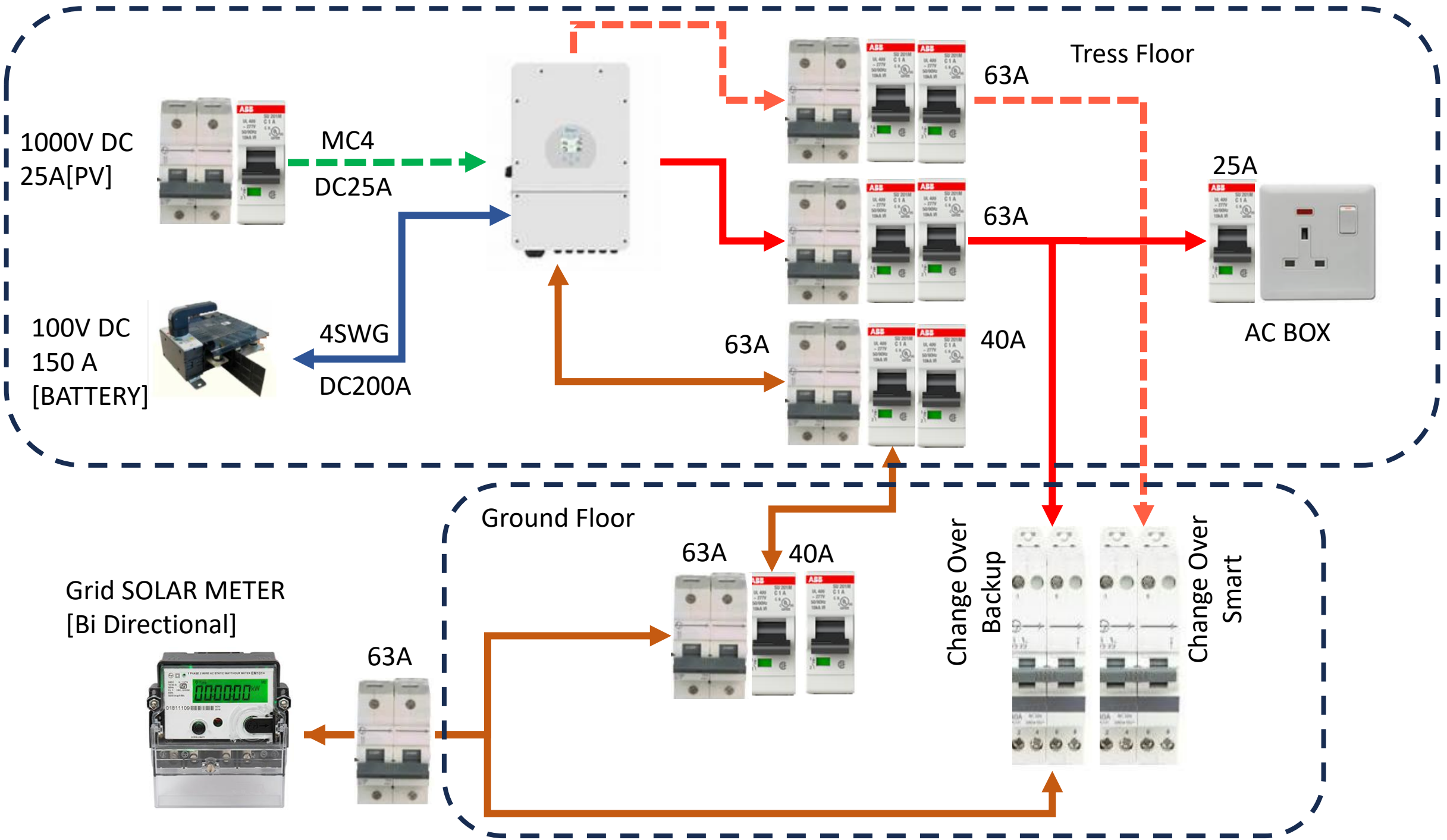


Backup Load (Emergency Load)





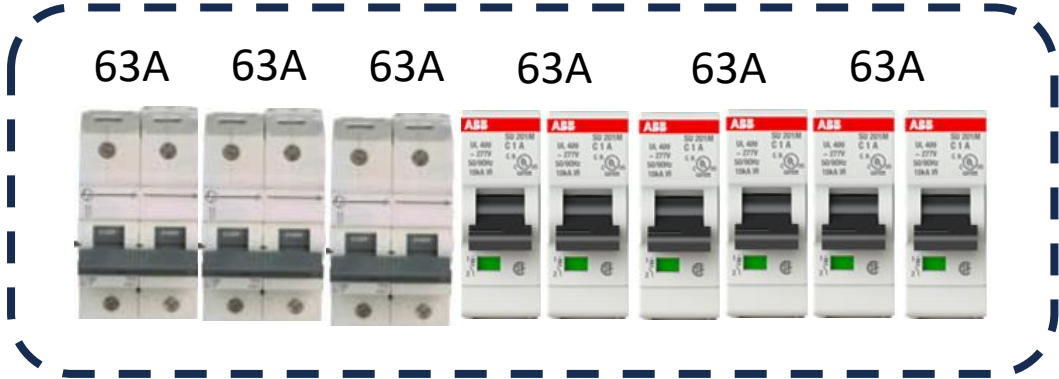




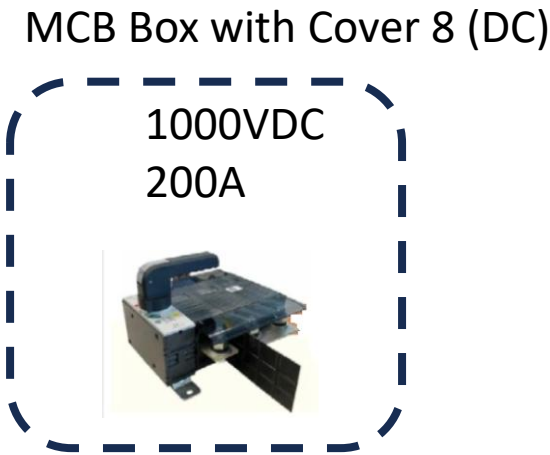
Tress Floor



SUN-5K-SG04LP1-EU



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

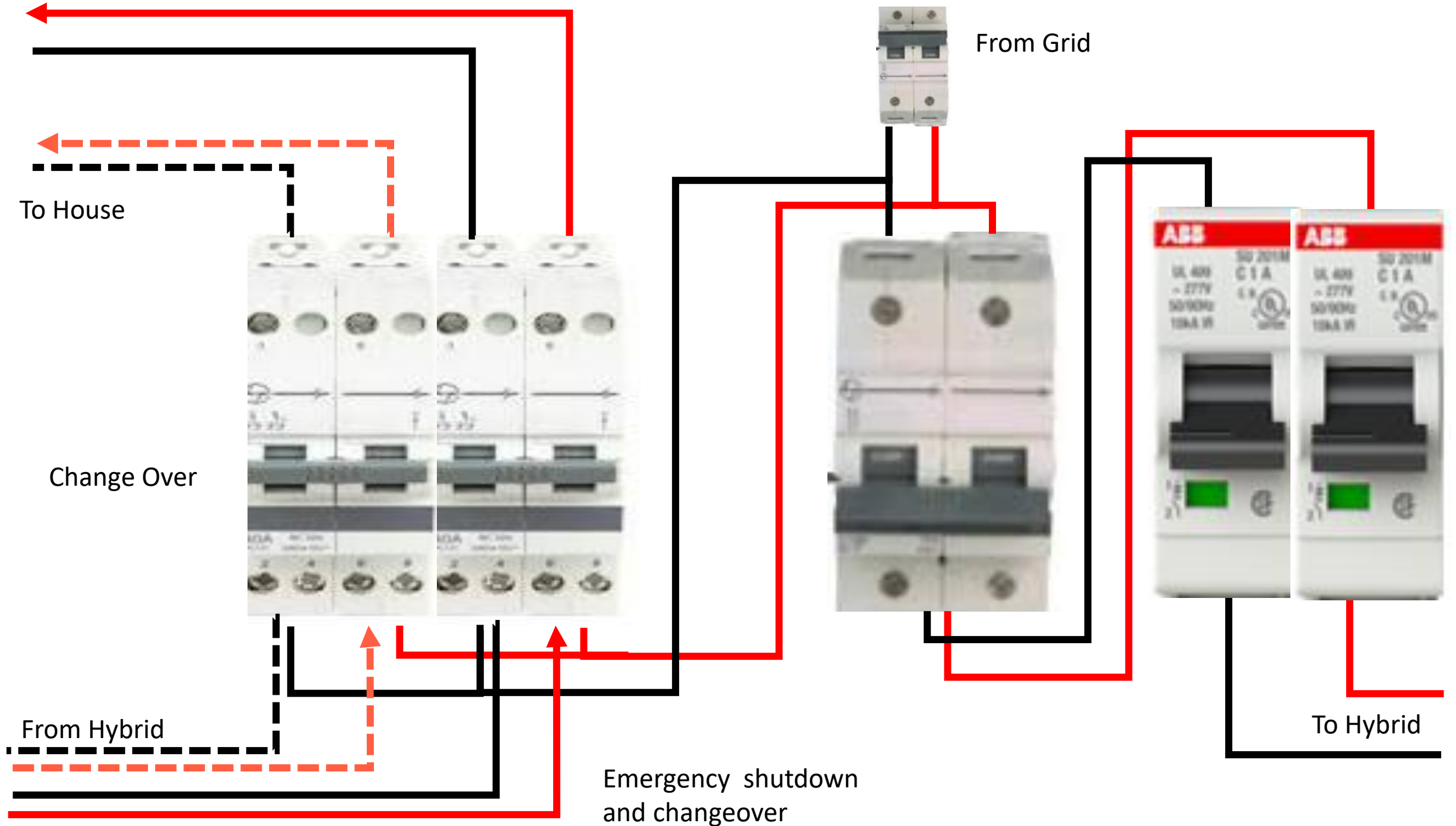


63A

40A



MCB Box with Cover 12
Emergency shutdown
and changeover





L Clamp Only here
Rest all are boxes

15cm

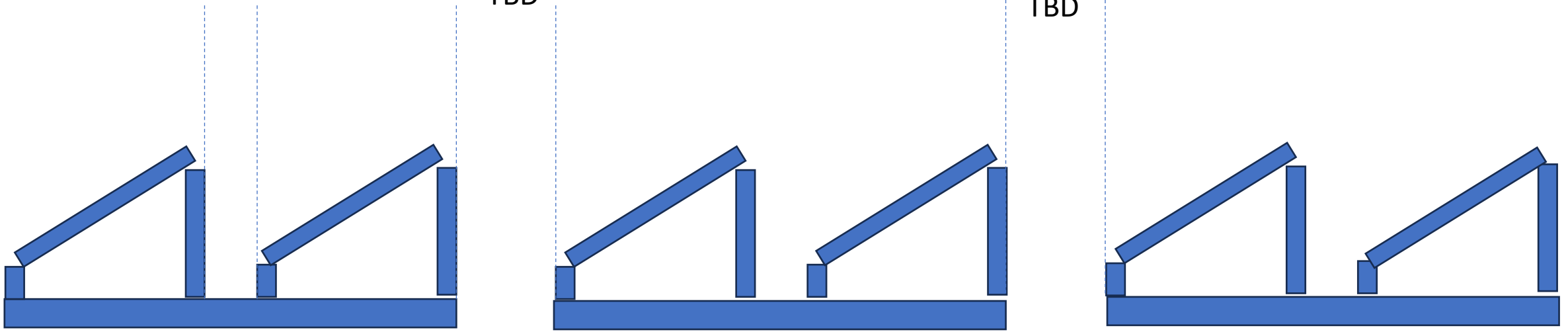
Latitude

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

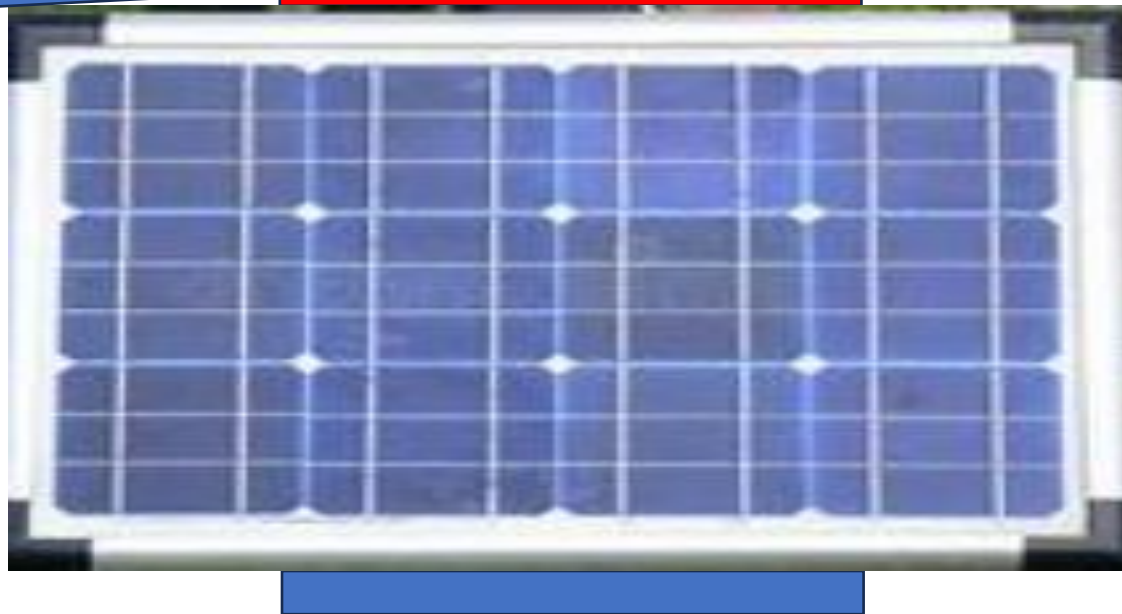
0.5 feet's

TBD

TBD

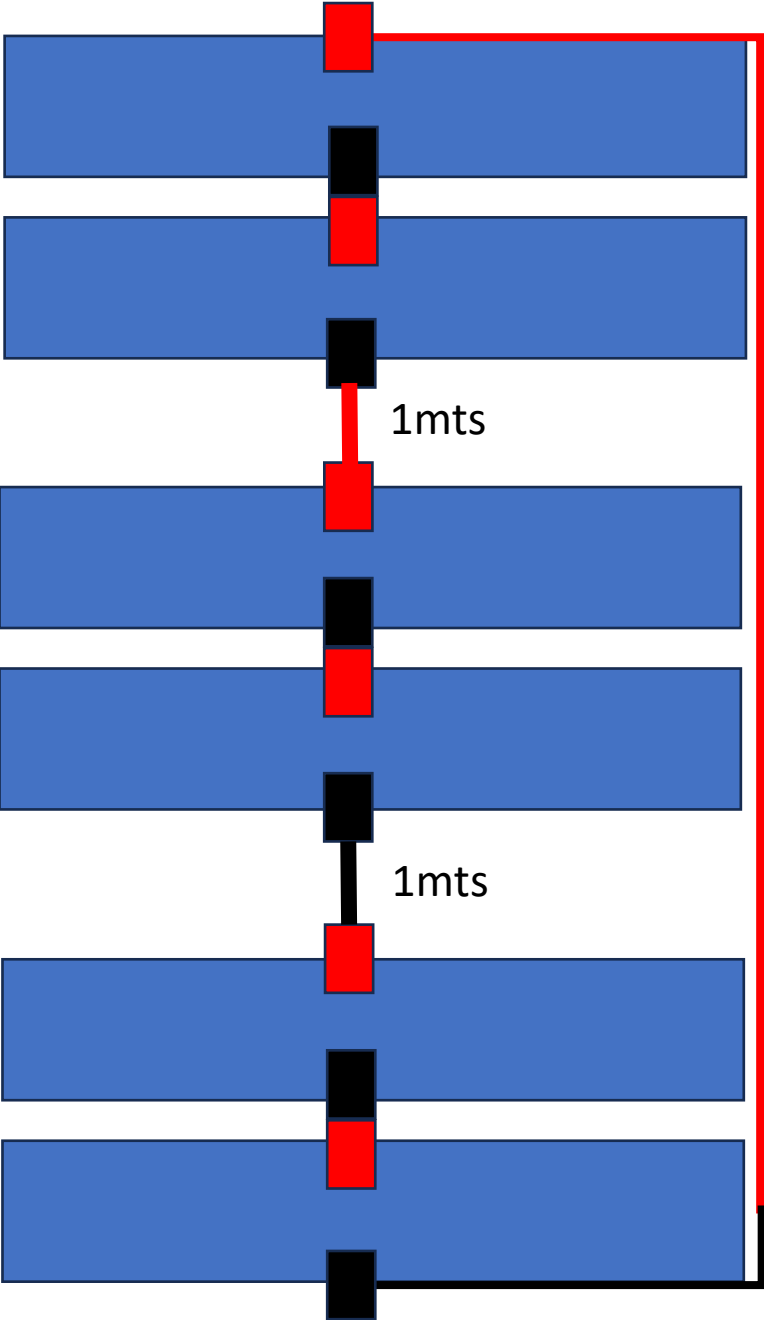


L Clamp Only here
Rest all are boxes



WEST

EAST



1mts

15mts

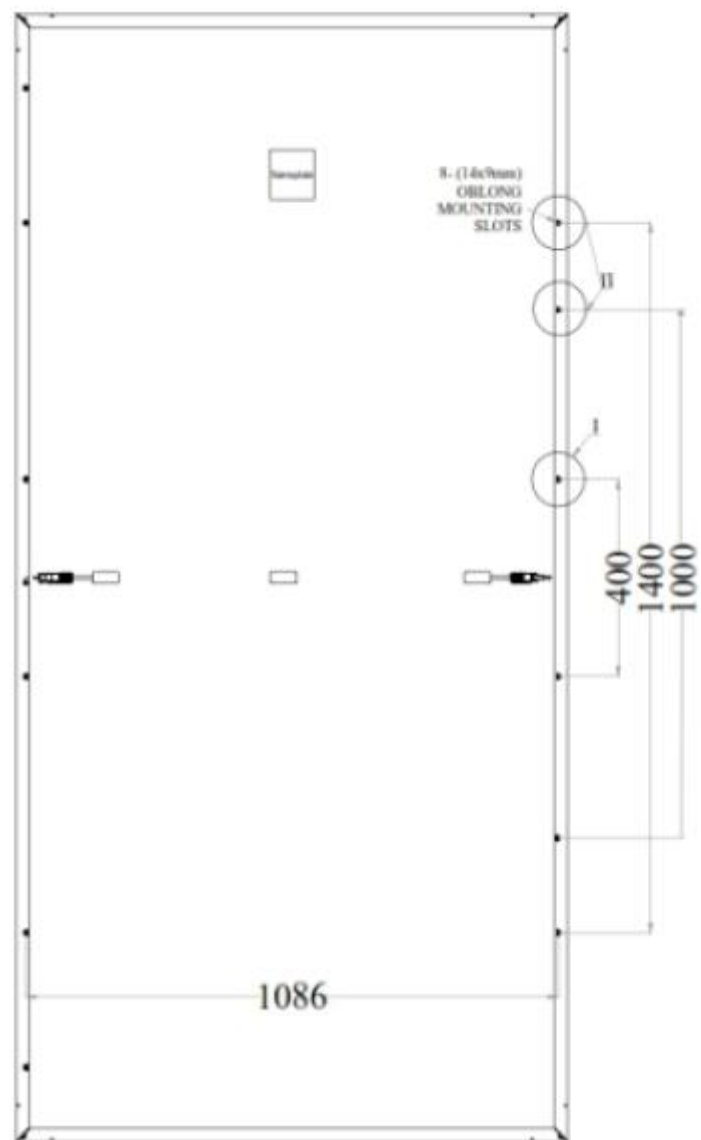
1mts

MPPT1

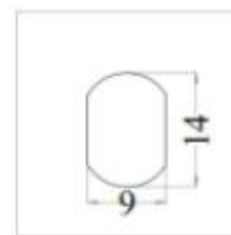
5mts

CIRCUIT
BREAKER
DC-PV

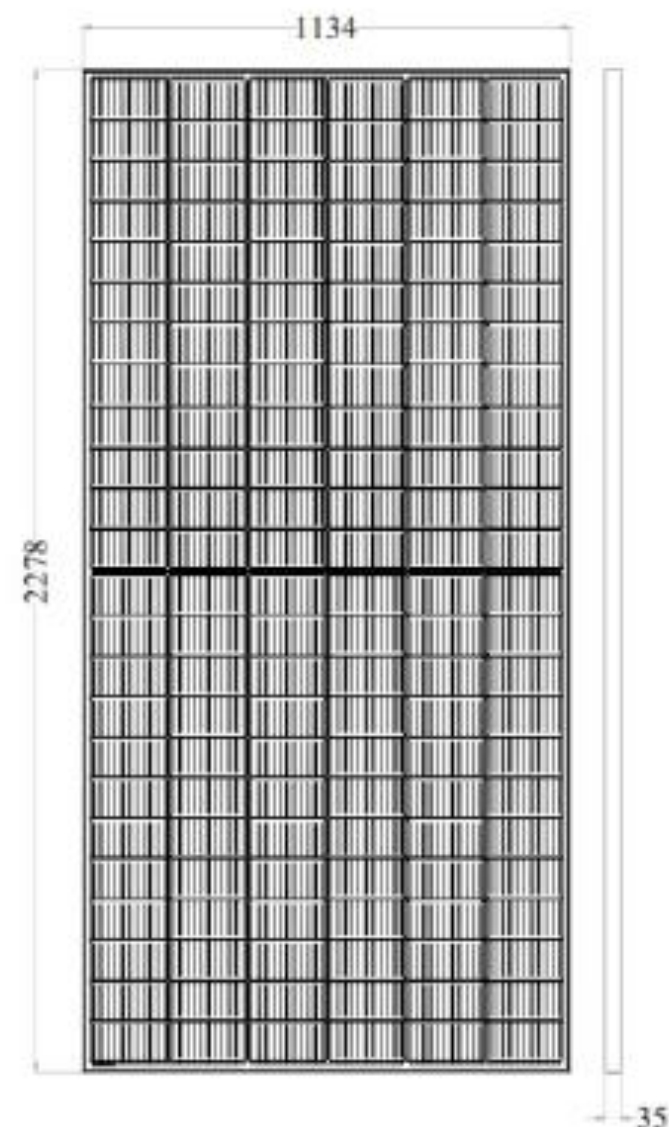
Power Room



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%

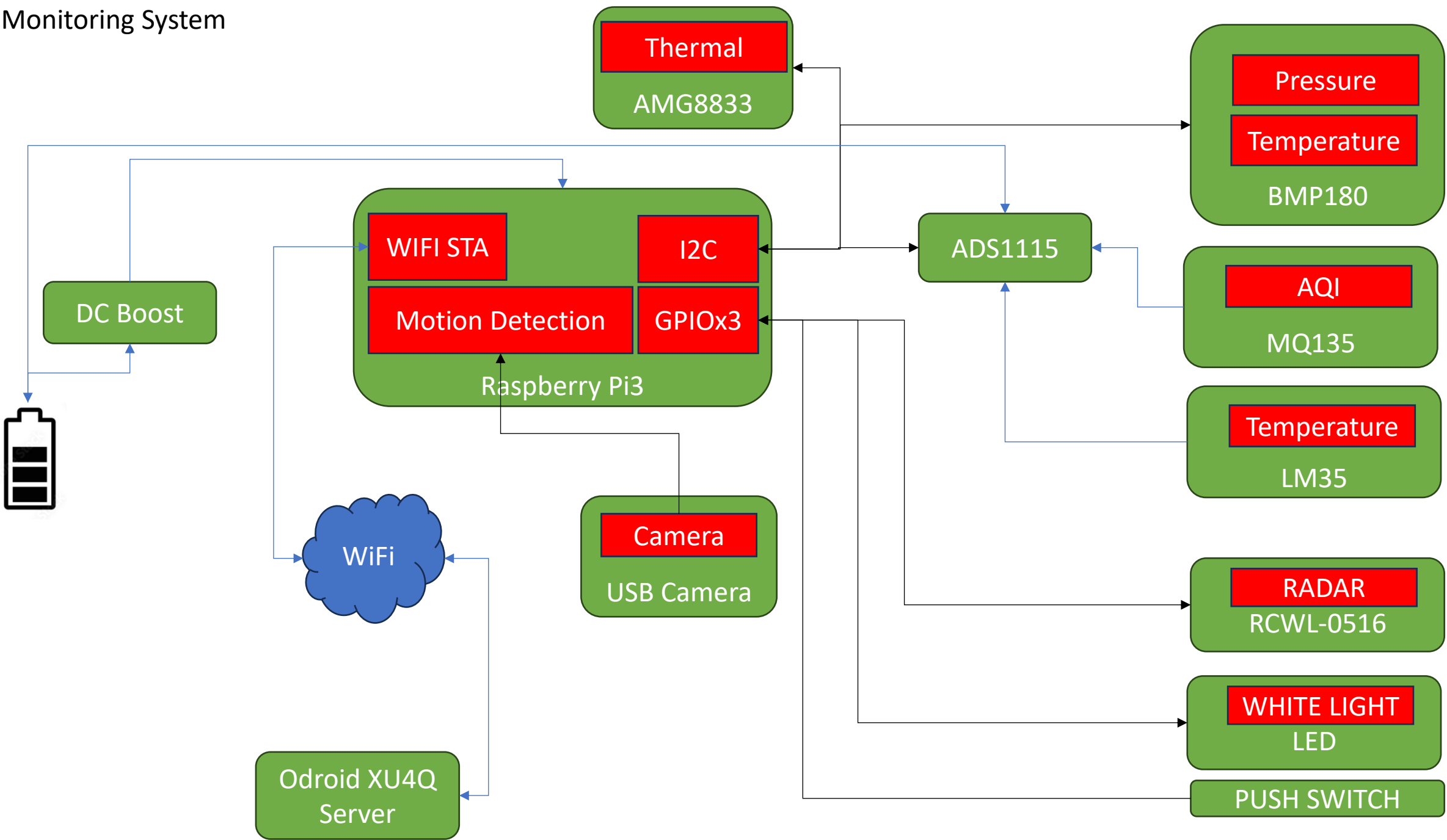
30% - Restart battery capacity required for Battery once it is gone below 20%

25% - Low Battery Alarm

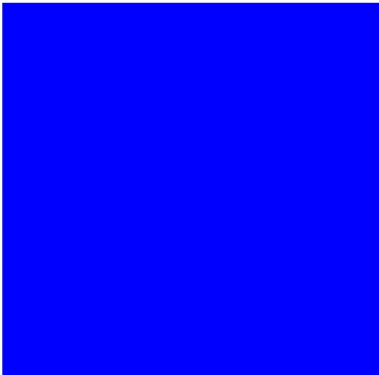
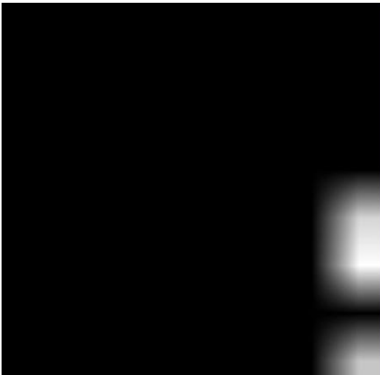
20% - BACKUP and SMART both OFF – total power failure

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

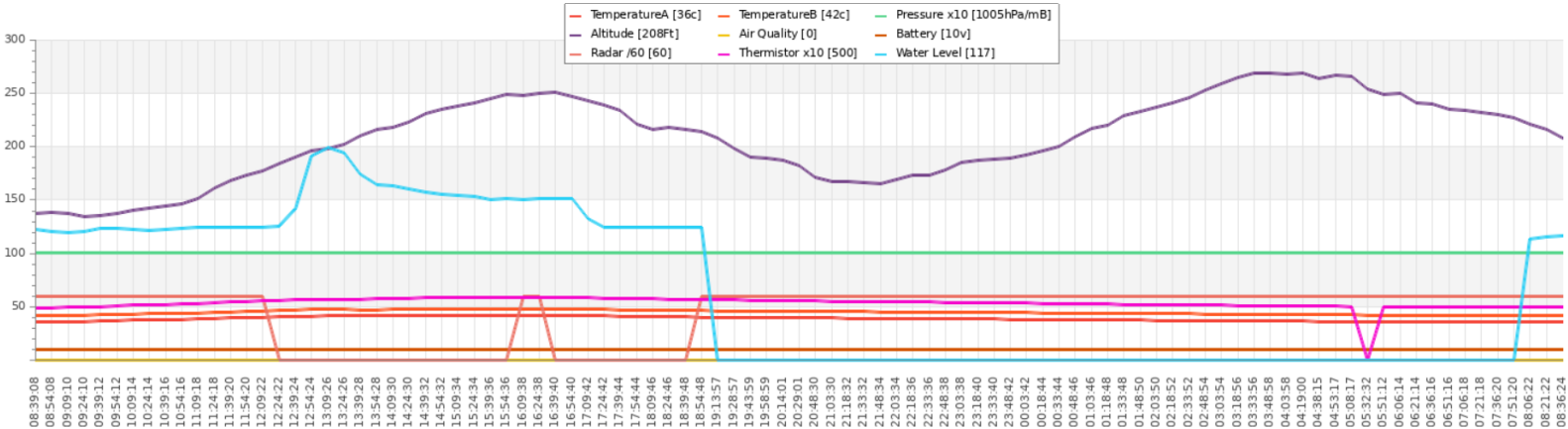
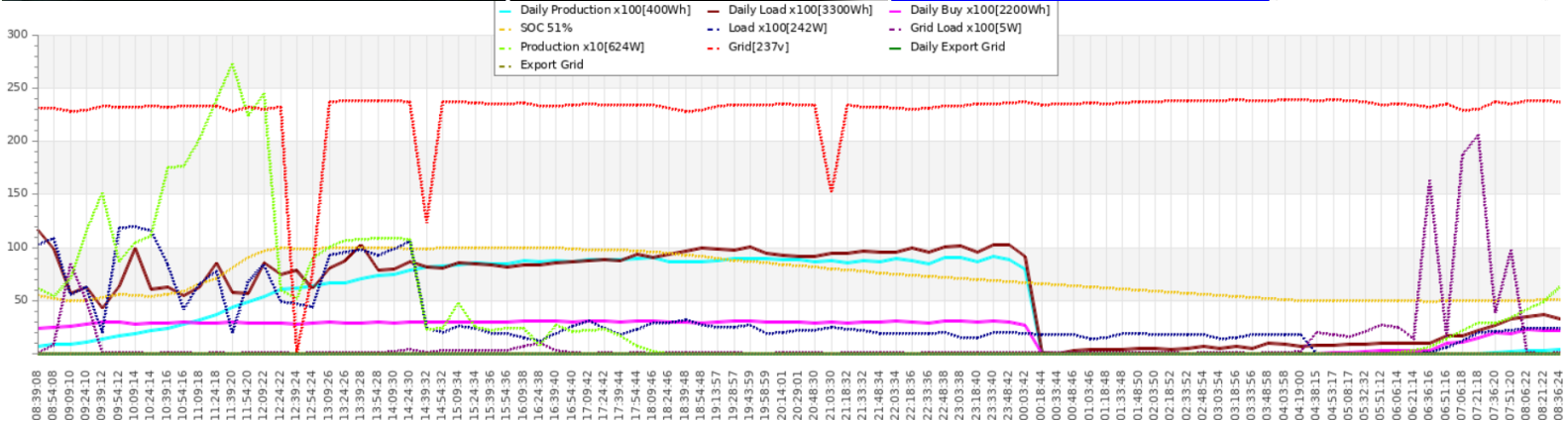
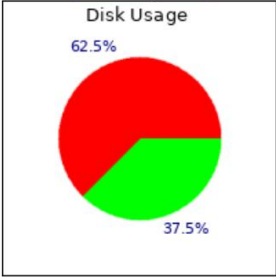
Monitoring System



084628@0:4:23



2025-10-14 08:46:28
[0]Days [4]Hours [18]Minutes
[Show Summary](#)
[Show Configuration](#)



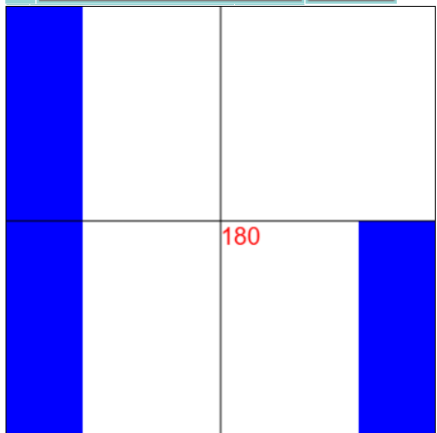
[Back to main page](#)

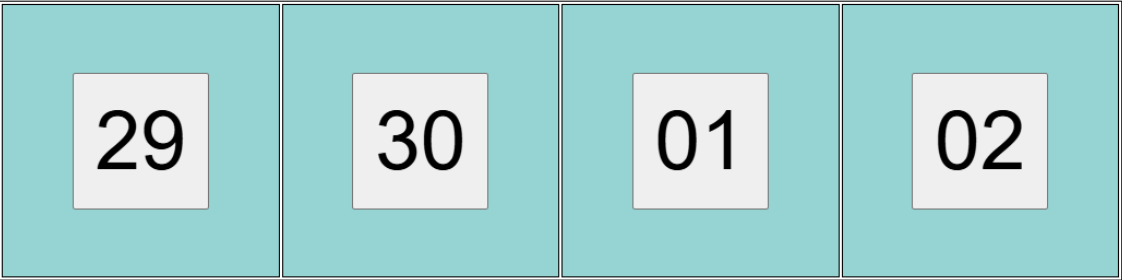
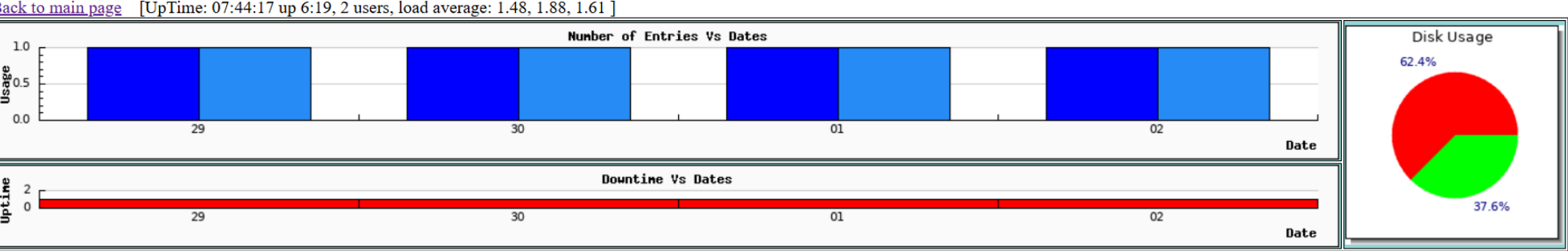
Configurations

DIR_MAX[1-255]	7
Solar IP	192.168.
Serial Number	31412
ACCESS	
Pump Key	
Power Key	
Motor IP	192.168.
Sensor IP	192.168.
Motor Hour	12
Water Low	150
Water High	200
Reboot	No
WLED	OFF
MASK	Add

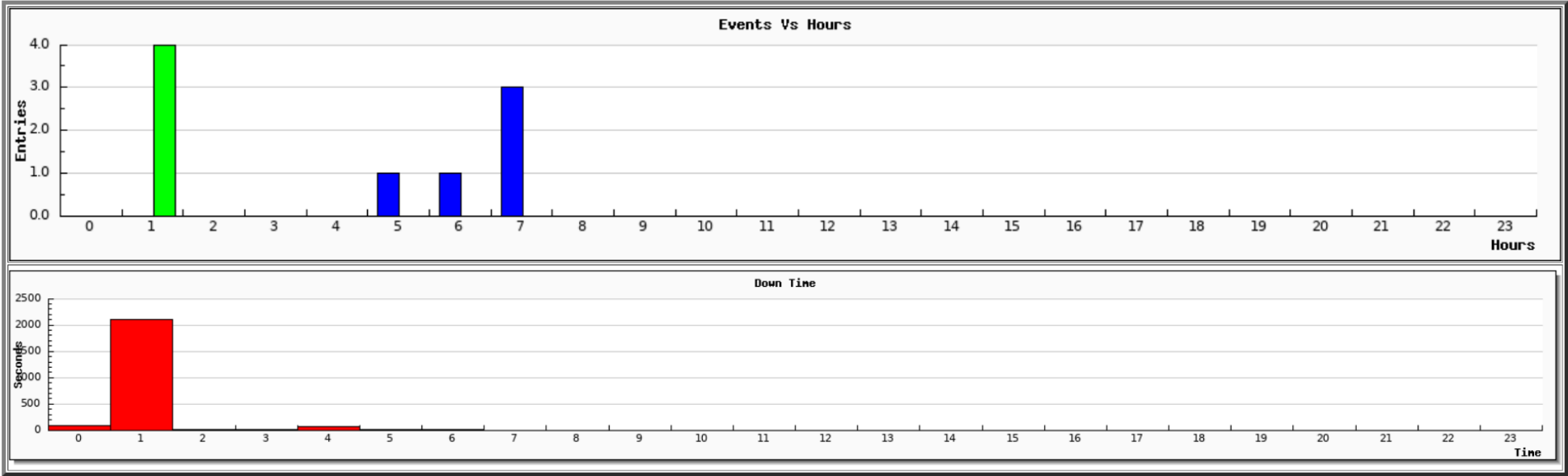
MASKS

ID	2	X	0	Y	0	W	64	H	360
ID	3	X	296	Y	180	W	64	H	180
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:5/4] [Directory Size:0.05/0.02 MB] [Date:02] [Back to summary page](#)



Select Hour: 0 ▾

Submit

