

# General Notes

Miscellaneous...

## SQ11 Info

Useful info on sq11 mini cam...

[sq11\\_info.txt](#)

## Solar panel stuff

[solar\\_power\\_system\\_calc.txt](#)

```
- inverter?  
- battery?  
- solar panel?  
  
1) load calculation  
- assume 4x25w led light, 2x80w fan, 1x40w tube light, 1x50w tv  
- total power = 100w + 160w + 40w + 50w = 350w  
  
2) inverter selection  
- load = 350w (consider: 500w)  
- recommended: 800w-1000w  
  
3) battery selection  
- assume 12v dc battery  
- for 350w ac load, i(dc) = 350w/12v = ~30a  
- assume battery operation of 8h  
- battery capacity = 30a x 8h = 240ah  
# 250ah battery available!  
  
4) battery charging current calculation  
- assume 250ah  
- charging current = ~10% current rating (Ah)  
- charging current = 25A  
  
5) solar panel selection  
- solar panel current = charging current + load current = 25 + 30 = 55A  
- solar panel power = 12v x 55A = 660W  
- solar panel options: 125w / 180w / 375w / 440w
```

- solar panel count = 660W / 180W = ~4!

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