

# Supercapacitor experiments

## Greencap 16V 83F (6x 2.7V 500F)

Each cap can handle 2.7V long term, 2.85V short term

Balancer discharges overcharged caps through 1 ohm resistor set once they reach 2.8 - 2.85 V

Replacing lead acid battery with supercapacitor

- UPS (replaced 12V 7Ah)
  - 8W LED was running for over 5 minutes
  - 100W incandescent bulb was running for 30 seconds
- Piaggio scooter (replaced 12V 10Ah AGM)
  - Charges to 14.4V (in ~1 minute)
  - After sitting for 9 hours voltage drops to 12.2V (cranks up)
  - After sitting for 15 hours voltage drops to 11.2V (cranks up)
  - At 8V (cannot crank up)

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